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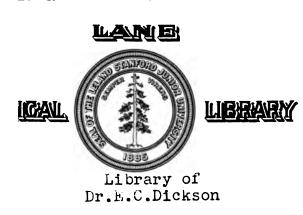
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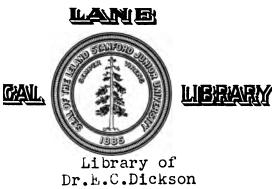
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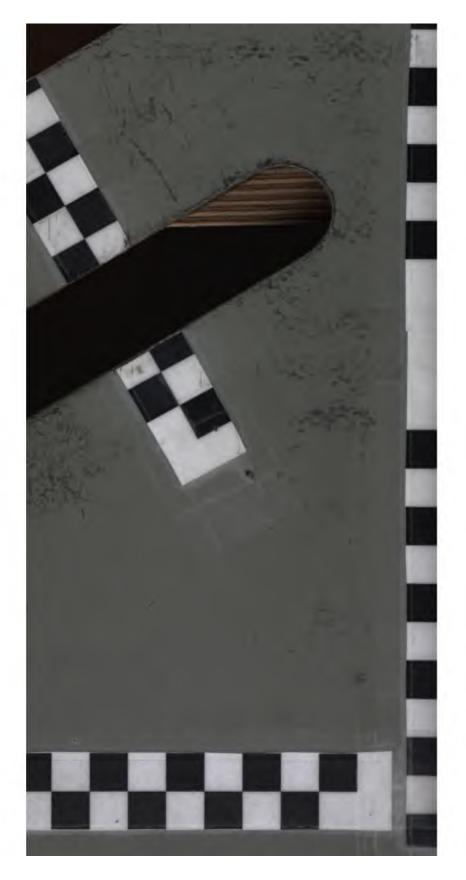
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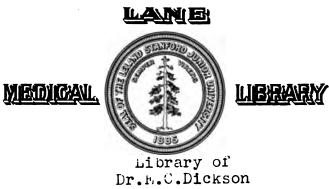
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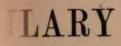


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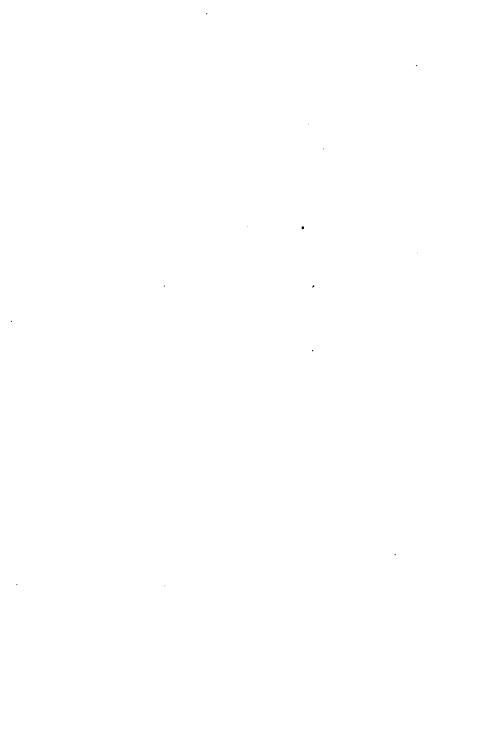
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# THE

# STANDARD FORMULARY

# A COLLECTION OF

# NEARLY FIVE THOUSAND FORMULAS

FOR

PHARMACEUTICAL PREPARATIONS, FAMILY REMEDIES, TOILET ARTICLES, VETERINARY REMEDIES, SODA FOUNTAIN REQUISITES, AND MISCELLANEOUS PREP-ARATIONS ESPECIALLY ADAPTED TO THE REQUIREMENTS OF RETAIL DRUG-GISTS.

SECOND AND REVISED EDITION.

by ALBERT E. EBERT, Ph. M., Ph. D. AND A. EMIL HISS, Ph. G.

> CHICAGO. G. P. ENGELHARD & CO. 1897.

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# INTRODUCTORY.

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No book is of such profit-making value in a drug store as a good formulary—a truly practical work which tells not only what to make, but how to make it. Such a book must be more than a mere compilation of formulas drawn from miscellaneous sources, many of them untried and untrustworthy. A score of carefully selected and thoroughly tested formulas are worth a thousand of the kind embodied in most formularies, which usually consist in great part of mere clippings from current journals or of random and untested selections from prior publications. Pharmacists who possess formulas of merit cling to them with the greatest tenacity; this being one feature which has assisted in fostering the creation of monopoly preparations—the bane of pharmacy of to-day.

This formulary contains a vast collection of formulas, covering everything the pharmacist may desire to make, and every one, it is believed, thoroughly trustworthy. A large proportion have been collected in years past, as the outgrowth of practical experience, and are now offered to American pharmacists for the first time. Dieterich's and Hager's celebrated manuals—the great German authorities—are, by discriminating translations and adaptations, for the first time made accessible to the pharmacists of this country. The British, German, French, Swedish, Norwegian, Belgian, Austrian, and Italian pharmacopueias, l'arrish's Pharmacy, the Eclectic Dispensatory, and the National Formulary have contributed their best and most useful formulas, while completeness has been assured by selections of the best from other authorities. While the policy has been not to burden the book with references to the sources of all formulas, due credit has been given in each case as opportunity permitted or equity required.

Attention is called here to the various divisions of the work. Part I embraces what are commonly known as pharmaceutical preparations, containing selections from the various pharmacopœias, the Eclectic Dispensatory, the National Formulary, and other authoritative works. Part III is designed to give the ingredients and quantities of preparations similar to the leading proprietary medicines of the market in order that druggists may know what they are called upon to dispense or sell. The introductory note to the chapter more fully explains its purpose. Part VII embraces such formulas as could not properly be included in the remaining division.

It is believed that the quantities of all formulas have been adapted to the usual needs of pharmacists. Preparations which are usually required in amounts of one pint or one pound bear formulas indicating this amount. If they are commonly prepared in smaller or in larger amounts, the quantities have been duly decreased or increased. Quantities of a formula are usually even amounts, such as 4 ounces, 8 ounces, 16 ounces, one-half gallon, etc. Due consideration has been given the fact that foreign preparations frequently differ in strength and specific gravity from similar preparations as made in this country;

## INTRODUCTORY.

for example, solution of iron chloride of the German pharmacopœia represents 10 per cent. of metallic iron, and has a specific gravity of 1.28, whereas the similar preparation of the United States pharmacopœia represents 13 per cent. of metallic iron, and has a specific gravity of 1.387. This fact has necessitated almost constant recalculation of formulas taken from foreign sources, and sometimes even the entire recasting of formulas, in order that the product made by the use of American preparations shall be the same as that designed by the original formula.

It is the design of this Formulary that all liquids be measured and all solids be weighed. Hence, foreign formulas usually required the conversion of parts of liquids into volume, and this again necessitated consideration of specific gravities.

Owing to the greater familiarity of American pharmacists with the old system of grains, ounces, etc., quantities are all expressed in these in preference to the metric system. Troy ounces and pounds being now practically obsolete, these weights are replaced by equivalent quantities in the avoirdupois system. Liquid quantities are expressed in the apothecaries' system. Frequently it was considered advisable to alter working directions for making foreign preparations; for example, by the substitution of percolation for maceration.

It is especially advised that pharmacists carefully peruse the introductories to the various chapters or divisions. Failure to produce satisfactory results may be caused by neglect of this precaution. The introductories in Part V are especially complete.

Taken all in all, this volume can not fail, it is believed, to be of incalculable service to every pharmacist who sees in a properly utilized laboratory a means of asserting his personal independence of other's preparations and for extending his business and professional reputation while adding in an important measure to his profits.

THE EDITORS.

## NOTE TO SECOND AND REVISED EDITION.

The editors desire to express their sincere appreciation of the very flattering reception accorded this work by pharmacists and others in all parts of the country. It is believed that with the additions and other changes embodied in this Second and Revised Edition, the book will be found in even closer harmony with the demands, not only of scientific pharmacy, but of the retail drug trade in its relations to the ever vital problem of profit and loss.

The Index to the volume has been adjudged by several critics not sufficiently extensive to facilitate ready reference. This possible objection has, it is believed, been answered in the rigid alphabetical arrangement adopted for the chief classes of preparations, including the Elixirs, Extracts, Fluid Extracts, Liniments, Ointments, Powders, Solutions, Syrups, Tinctures, Wines, etc. With this fact in mind, reference to any desired preparation will be attended with little difficulty.

The work is undergoing constant revision, in order that the successive editions may be kept fully up to date in every department. Suggestions or contributions to this end will be highly appreciated.

CHICAGO, January 2, 1897,

#### THE EDITORS.

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# TABLE OF ABBREVIATIONS.

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Codex.
aNorw. Pharm.
Swed. Pharm.
Austr. Pharm.
Belg. Pharm.
Ital. Pharm.
œiaU. S. P.

# PART I.

# PHARMACEUTICAL PREPARATIONS.

#### Abstracts.

These preparations were first introduced into the United States Pharmacopœia of 1880, and were dropped from the edition of 1890. They are used to some extent; the following is a general process for their manufacture:

Drug, No. 60 powder.....av.oz. 8 Menstruum, Powdered sugar of milk of each, sufficient

Moisten the drug with menstruum, and pack, macerate, and extract in the usual way for making fluid extracts, reserving the tirst 6¼ fluidounces of percolate obtained and continuing percolation until the drug is exhausted. Evaporate the second percolate, at a temperature not exceeding 50 degrees C., to 11 fluidounces; mix this with the reserved percolate, place the whole in a broad evaporating dish or other suitable vessel; add 4 av. ounces of milk sugar, mix well, cover the vessel with a piece of thin muslin gauze to exclude dust, and set the whole aside in a warm place, where the temperature will not rise above 50 degrees C., until the mixture is dry. Then add enough milk sugar to make the whole weigh 4 av. ounces, reduce the whole to a uniform fine powder, and keep in a well-stopped bottle.

Essentially, therefore, the process of manufacture consists in making a fluid extract, evaporating this to a dry solid extract, and adding enough milk sugar to make up a quantity of one-half of the weight of the original drug.

Eleven abstracts were official, viz., aconite, belladonna (root), conium (fruit), digitalis, henbane (leaves), ignatia, jalap, nux vomica, podophyllum, senega and valerian. The menstruum usually employed in extracting the drugs was alcohol, the exceptions being nux vomica and ignatia, in which the menstruum was a mixture of alcohol and water in the proportion of eight of the former to one of the latter, and conium, in which the first four fluidounces of alcohol used as men-

struum (is mixed with three fluidrams of diluted hydrochloric acid.

## Acid, Carbolic, Camphorated. (Phenol Camphor.—Carbolized Camphor.)

Camphor, coarse powder...av.oz. 10 Carbolic acid, crystal.....av.oz. 3½ Alcohol .....fl.oz. ½

Triturate together until an oily liquid is obtained, or mix in a bottle and agitate frequently until solution occurs.

#### Acid, Carbolic, No. 33.

This is a dilution of carbolic acid recommended as more convenient and safe to use than liquefied carbolic acid, i.e., crystal carbolic acid melted and maintained in a liquid state by the addition of 5 per cent of water. It is prepared as follows:

Carbolic acid, crystal.av.oz. 2 or fl.oz. 2 Glycerin.....av.oz. 5 or fl.oz. 4

Melt the acid and add the glycerin.

This No. 83 acid mixes readily with water in all proportions, and, not being as caustic as the ordinary liquefied acid, cannot result in as much mischief or fatality if used improperly, or if taken accidentally or purposely.

#### Acid, Hydrocyanic, Scheele's.

This is to be prepared from potassium ferrocyanide and sulphuric acid according to the process of the U. S. Pharmacopœia. It should contain 4 per cent. of absolute hydrocyanic acid.—Brit. Form.

## Acid, Sulphocarbolic, Crude.

Carbolic acid, crude.....fl.oz. 5 Sulphuric acid, commercial...fl.oz.  $1\frac{1}{2}$ Water....fl.oz. 9

Pour the carbolic acid into an earthenware jar surrounded by cold water ; add the sulphuric acid in a fine stream, stirring constantly; then dilute this mixture with the water, also added gradually. Any marked rise in temperature should be avoided. It may be necessary to keep the temperature down by the use of ice added to the cold water.

This forms an economical and effective dis-

-D.

infectant for cesspools, urinals, sewers, etc.

# Alcohol, Deodorized.

Many methods for deodorizing alcohol have been recommended, but the following will be found satisfactory:

A convenient amount of alcohol is shaken with powdered potassium permanganate until it assumes a decided color. Then allow to stand for several hours until the permanganate has become decomposed, and brown manganese dioxide has deposited. A pinch of pulverized calcium carbonate should then be added, and the whole subjected to distillation, using a well-cooled receiver. Distil very slowly at first, testing the distillate frequently, until a mixture of the distillate and a strong (syrupy) solution of pure caustic soda or potassa, in the proportion of 10 of the former to 1 of the latter, gives no perceptible yellow coloration, on standing for 20 minutes or half an hour. The first portion of distillate that yields this coloration should be rejected; the last one-eighth of liquid should not be distilled, and should also be rejected. The remaining portion only is adapted for use.

This alcohol is adapted to all chemical purposes and for use in the manufacture of perfumes.

#### Alcoolats.

These are a class of French preparations produced by distillation of drugs with alcohol. Balsamam (or baume de) fioravanti is an example.

#### Alcoolatures.

A class of French preparations produced by the action of alcohol upon fresh plant parts. They correspond to the tinctures of fresh herbs of our pharmacopœia.

#### Alcooles.

A class of French preparations which consist of alcoholic solutions of volatile oils, and therefore correspond to the spirits of our pharmacopœia.

**Arquebusade.** (Brown Arquebusade. Mund Wasser.)

Acetic acid, diluted......fl.oz. 814 Diluted alcohol......fl.oz. 41⁄2 Sulphuric acid, diluted.....fl.oz. 11⁄4 Clarified honey.....fl.oz. 2 Mix and filter.—II. and D.

### Arquebusade, White.

Oil of sagedrops	7
Oil of wormwooddrops	7
Oil of ruedrops	7
Oil of peppermintdrops	7
Oil of rosemarydrops	7
Oil of marjoramdrops	7
Oil of lavender flowersdrops	7
Alcohol	19
Waterfl.oz.	
Dissolve the oils in the alcohol and	then
add the water.—H.	

#### Balsam, Blackberry.

Fluid extract of blackberry root .fl.oz.	2
Fluid extract of geranium fl.oz.	1
Tincture of gingerfl.oz.	1
Syrup of rhubarb, aromaticfl.oz.	4
Oil of cinnamon drops	5
Oil of nutmegs drops	5
Oil of cloves, oil of pimento,	
eachdrops	10
Simple elixir, enough to make.fl. oz.	16
Mix the oils with the tinctures; add	i the
syrup and elixir, and filter.	
D.C. 1 100	

Refer also to page 180.

Balsam, Friar's. (Traumatic Balsam.— Turlington's Balsam.)

Benzoinav.oz.	1%
Storaxav oz.	1/2
Balsam of toluav.oz.	
Balsam of Peruav.oz.	
Myrrhgr.	
Aloesgr.	
Angelica rootgr.	
Alcoholfl. oz.	16

Macerate for ten days, and filter. The compound tincture of benzoin may be substituted for the above.

**Balsam Fioravanti.** (Baume de Fioravanti.—Spiritus Balsamicus.)

Peru balsamdrops 15
Rectified oil of turpentinedrops 15
Oil of cassiadrops 15
Oil of clovesdrops 15
Oil of juniper berriesdrops 15
Oil of macedrops 15
Oil of thyme (white)drops 15
Alcoholenough to make fl.oz. 16.
—Н.

This is a simpler and more rational formula than that of the Codex, which requires distillation.

Balm of Gilead, Factitious. (Artificial Balsam of Mecca.)

The original is an oleoresin derived from a tree growing on the shores of the Red Sea. Imitations are much more common and are prepared as stated below:

I.

Benzoin, coarsely powdered.av.oz. Liquid storaxav.oz.	
Tolu balsamav.oz. Balsam of firav.oz.	

Place in a glass flask or bottle, and subject to the heat of a water bath for several hours; agitate frequently until liquefied; allow to cool, and decant the clear portion, to which add sufficient of the oils of lemon, cassia, rosemary, and nutmeg and vanilla extract to give it a strong aromatic odor.

#### II.

Benzoin, coarsely powderedav.oz.	1
Peru balsamav.oz.	1
Vanilla, cut smallgr.	60
Nutmeg, brokengr.	60
Balsam of firav.oz.	8

Digest the whole as above, decant, and to decanted liquid add same essential oils.

#### Balsam of Guaiac.

Guaiac resinav.oz.	8
Peru balsamfl.dr.	
Alcoholfl.oz.	10´¯
Macerate for 7 days and strain.	

An old remedy for rheumatism, ague, etc. Dose,  $\frac{1}{4}$  to 1 teaspoonful.

#### Balsam of Honey. (Pectoral Balsam.)

Opium, powderedgr.	15
Tolu balsamgr.	15
Storaxgr.	45
Honey	4
Diluted alcoholfl.oz.	16

Balsam de Maltha. (Balsam di Malta.)

Benzoin, powderedav.oz.	
Peru balsamav.oz.	1
Aloesgr.	120
Alcohol fl.oz.	

Macerate for 7 days and filter.

#### Balsam, Metz's.

Linseed oil, olive oil, eachav.oz.	6
Oil of laurel berries, expressed av.oz.	1
Oil of turpentinefl.oz.	2
Aloes. powdereddr.	
Verdigris, powdereddr.	3
Sulphate of zinc, powdereddr.	11/2
Oil of juniperfl.oz.	
Oil of clovesfl.dr.	

Melt the oils by gentle heat, and apply the powders as a dressing to wounds and ulcers.

Balsam, Nutmeg. (Balsamum Nucistæ. —Muskat Balsam.—Magen Balsam.— Nutmeg Cerate.)

Yellow waxav.oz.	11/
Olive oilav.oz.	31/2
Expressed oil of nutmegav.oz.	101/2

Melt the wax and add the oils.—Germ. Pharm.

A cheaper preparation can be prepared according to the following formula :

Olive oilfl.oz.	6
Yellow waxav.oz.	2
Spermacetiav.oz.	1/2
Expressed oil of nutmegav.oz.	8
Alkanetgr.	
Annattogr.	
Alcoholfl.dr.	2

Melt the wax and spermaceti, add the olive, divide it into two parts; in one portion, digest the alkanet for 5 minutes, add the nutmeg oil and strain; triturate the annatto with the alcohol, digest the mixture with the second portion of oily liquid for 5 minutes, strain, add this to the first colature, mix well, and pour into molds if desired. Of course, a cheaper preparation may be produced by using a cheaper oil than olive oil, such as cottonseed or benne oil.—D. modified.

#### Balsam, Riga, Factitious.

The genuine, which is derived from a tree grown in northern Europe and Asia, is scarcely ever seen in this country, and the following mixtures are used as imitations:

## I.

Oleo-balsam mixture, N. F. fl.oz. 14 Spirit of sage (1 of oil to 49 of alcohol)....fl.oz. 11/2 Tincture of Spanish saffron...fl.dr. 3 --H.

## II.

Oil of juniper wood.....fl.oz. 2 Compound tincture of benzoin..fl.oz. 2 Alcohol .....fl.oz. 12

#### Balsam of Soap.

White castile soap, powderedav.oz.	2
Camphorav.oz.	2
White oil of thymefl.dr.	
Acetic etherfl.oz.	

Mix and digest in a closed vessel at a gentle heat until dissolved, and decant the clear portion.

Balsam of Sulphur. (Sulphurated (	Oil.)
Demann or Barbrar. (Saibuaren (	on. j

Linseed (	oil		 	.fl.oz.	15
Sublimed	sul	phur.	 • • • • •	av.oz.	21/2

Boil together in an iron vessel, stirring constantly, until a uniform liquid is obtained, being cautious in regulating the heat so that the liquid will not boil over.

#### Balsam of Turpentine.

Olive oilfl.oz.	6
Oil of turpentinefl.oz.	2
Yellow waxav.oz.	
Peru balsamfl.dr.	2
Camphorgr.	120
Essential oil of nutmegfl.dr.	2

Melt the wax, add the olive oil, and then incorporate the other ingredients.

#### Balsam, Universal.

Liniment of camphorfl.oz.	2
Infused oil of henbanefl.oz.	8
Cottonseed oilfl.oz.	2
Yellow waxav.oz.	2
Solution of lead subacetatefl.oz.	11/2

Melt the wax, add the oils, allow to cool, and when fairly cool, thoroughly incorporate the lead solution with the mixture.

Under the above title, many kinds of preparations are offered, but the formula given is believed to be the most sensible and will furnish as good a product as any.-D.

#### Bandages, Plaster of Paris.

These are made by taking gauze of suitable kind and of the width desired, and rolling it up just as in making roller bandages, and while doing so, sprinkling over it freshly burned plaster of Paris sufficient to fill the pores. The bandage is then to be wrapped in waxed paper and put into a tin box, or it is put directly into the box, which latter should then be well closed.-D.

## Benzin, Deodorized.

Mix together 8 fluidounces sulphuric acid and 56 fluidounces of water and when cold pour it into a two-gallon bottle; add 1 av. ounce potassium permanganate and agitate until dissolved; then add 1 gallon of benzin and thoroughly agitate, and allow the mixture to remain in contact for twentyfour hours, frequently agitating. Separate the benzin and wash in a similar bottle with a mixture of 120 grains of potassium permanganate, 240 grains of caustic soda, and ordinary syringe, and having a piston which

32 fluidounces of water, agitating frequently during several hours. Then separate the benzin and wash it thoroughly with water.

On agitating the benzin with the acid permanganate solution, an emulsion-like mixture is produced which separates in a few seconds, the permanganate solution slowly subsiding and showing considerable reduction.

The quantity of permanganate necessary is in direct proportion to the impurities existing in the benzin. The quantity ordered in the formula is sufficient for a very crude article and may be reduced when manipulating with a purer distillate.

## Bitters, Thompsonian. ("Number Four")

Barberry bark.

Balmony, Poplar bark.....of each, equal parts.

Other Bitters will be mentioned in Parts II and III.

Blood, Dried, Defibrinated. (Sanguis Bovinus Inspissatus or Exsiccatus.)

This may be prepared by evaporating fresh defibrinated bullock's blood on a water bath. stirring constantly, until it assumes a granular condition; then spread on glass plates and keep at a temperature of 35 to 40 degrees C. (in a drying oven) until perfectly dry, after which it is powdered and put into well-stopped bottles.-D.

The defibrinated blood may be prepared by vigorously beating fresh blood in a broad dish with a stick or twig until there is no further separation of fibrin.

Bougies. (Urethral Suppositories.)

These are prepared from three different kinds of materials, the first kind being prepared with cacao butter, and are known as "cacao butter" bougies; the second with gelatin and glycerin, and are known as "gelatin" bougies, and the last with mucilage, and are known as "gum bougies."

# Bougies, Cacao Butter.

The mass for these is prepared by mixing the medicating substance with grated cacao butter, adding a little petrolatum or bland fixed oil. To form the bougies from this, the mass is put into a bougie syringe made of metal, having an opening below like an screws down instead of simply pushing down. When the mass is prepared, it is packed into the syringe after removing the piston; the latter is replaced and is slowly screwed down-As the piston moves forward, the ward. mass begins to make its exit at the opening below in the form of a slender cylinder. This cylinder may subsequently be cut into In the absence of a suitable lengths. syringe, the bougies may be fashioned by rolling them out on a board just as a pill mass is rolled into a "pipe."

Providing the medicating substance is not in powder form, and cannot conveniently or advantageously be reduced to this form, the method of mixing is not so simple as outlined above. If something like an extract is to be incorporated, this must first be softened with water, glycerin, diluted alcohol, or alcohol, after which it may be mixed with the cacao butter as before; or it may be that some fixed oil or other substance will be a more suitable softening agent. Possibly the substance is soluble in the cacao butter in a melted condition; it should, of course, be so dissolved, and after cooling and hardening, the mass should be reduced to powder by grating or otherwise, mixed possibly with a little petrolatum or fixed oil, and be fashioned into bougies as before. Large quantities of liquids cannot, of course, be incorporated with bougie masses; in many instances, however, it will be possible to concentrate the liquid by evaporation without injury to its medicinal principles ; then, subsequently, the concentrated residue may be mixed with the cacao butter as before.

These bougies have the disadvantage of being brittle, and hence are used but little.

#### Bougies, Gelatin.

The best kind of gelatin to use in this process is the purest white of the kind known as "French." The mass employed is made from gelatin, glycerin and water, but the proportion cannot be the same in all cases, as the nature of the medicating substance to be combined may require a modification; also the gelatin may vary to some extent, and modification of the proportions may be required on this account.

dered, it is best to keep a supply of several suitable gelatin masses. These should preferably be kept in glass vessels, and be covered with a thin layer of alcohol to prevent moulding, the whole, of course, being well covered. When wanted for use, the alcohol should be poured from the surface of the mass and the adhering alcohol removed by wiping with a tuft of absorbent cotton, after which the mass may be removed either by cutting out a piece with a knife or by melting in a water bath and pouring out the liquefied mixture.

To prepare the mass the following plan should be adopted:

Soak the requisite quantity of gelatin in a portion of the distilled water contained in a porcelain vessel for several hours, or until it is thoroughly softened; add enough water to make 3, 4 or 5 times the weight of original gelatin; add the prescribed quantity of glycerin; heat on a water bath with frequent stirring until dissolved, and then continue heating to remove excess of water.

Medicaments added to gelatin bougic masses may be (1) without any influence upon the latter, or they may (2) cause it to become tenacious, or they may (3) render it thin or unctuous. Examples of the different kinds are appended, also of the different mixtures of glycerin, gelatin and water for use in various cases.

Hard Glycerin-Gelatin Mass.

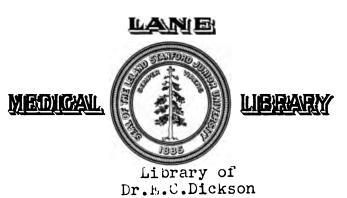
Gelatin	av.oz. 3
Water	fl.oz. 9
Glycerin	fl.oz. 5
This mass is to be	prepared as directed,

and is then to be evaporated until it weighs 12 av.ounces.

Soft Glycerin—Gelatin	Mass.
Gelatin	av. oz 1 1/2
Gelatin Water	fl.oz. 41/2
Glycerin	fl.oz. 4

Evaporate this also until it weighs 10 av.ounces.

In preparing the bougies, the medicating substance must be added either in the form of fine powder, or in the form of a concentrated solution. If it be an extract or similar substance, it is to be softened with water, glycerin, etc., just as in the case of the cacao Where gelatin bougies are regularly or- butter bougies. As in making the latter, no



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Mix in a wide-mouth glass bottle or other suitable vessel. Place in the mixture as much catgut as is to be impregnated, adding more liquid if necessary, to completely immerse the gut.

Allow the gut to remain in the turbid fluid until the latter becomes clear, agitating from time to time. When the liquid becomes transparent, the gut will have become soft and have absorbed water and acid. It is now wound upon glass spools, the whole then being immersed in a mixture of carbolic acid and olive oil in the proportion of 1 of the former to 4 of the latter.-D.

II. Block's process:

Roll the cleansed catgut upon glass spools, macerate in a 5-per-cent aqueous solution of carbolic acid for 48 hours, then unwind in a dish containing a freshly prepared 5-per-cent aqueous carbolic acid solution, and now rewind (tightly) the gut upon the spool. Preserve in a 5-per-cent solution of carbolic acid in alcohol.-D.

III. Block's carbolic alcohol process:

Prepare like the preceding, using an alcoholic solution of carbolic acid instead of an aqueous one as above.-D.

#### Catgut, Chromated.

Chromic	acidgr.	2
	acid, crystalgr.	
Distilled	waterfl.oz.	1734

Dissolve and add an amount of catgut equal in weight to the carbolic acid used; allow to remain in the solution for 48 hours, then remove, dry, wind upon glass spools, and place in carbolized oil.

This is Lister's process for hardening gut so that it will not be readily absorbed.

## Catgut, Juniper, Kocher.

Macerate catgut for 24 hours in oil of juniper berries, then preserve either in this oil or in the following solution:

Mercuric chloridegr.	5
Glycerin fl.oz.	2
Alcoholfl.oz.	27
-	-D

Catgut, Mercuric Chloride. (Sublimated Catgut.)

1. Bergman's process:

Catgut rolled on glass spools is to be

mercuric chloride, renewing the solution every 2 days, until it remains clear, then preserve the gut in this solution.

2. Schede and Kuemmel's process:

Catgut rolled upon glass spools is to be placed for 12 hours in a 5-per-cent aqueous solution of mercuric chloride; then preserve in  $\frac{1}{2}$  per-cent alcoholic solution of the same salt to which has previously been added 10 per cent of glycerin.-D.

## Caustic, Arsenical, Ratier's.

Arsenious a Kino Cinnabar	 	.gr. 160

All should be in fine powder.

#### Caustic, Black, Velpeau's.

Triturate powdered licorice root in a mortar, adding sulphuric acid until a suitable mass is formed.

Caustic, Vienna. (Potassa cum Calce.)

Triturate equal parts by weight of caustic potassa and lime together in a warm iron mortar so as to form a powder, and keep in a well-stoppered bottle.-U. S. P.

Cerate, Brown. (Brown Ointment. ---Mother salve.-Unguentum fuscum.-Emplastrum fuscum molle.)

I. Lead plasterav.oz.	8
Yellow waxav.oz.	
Lardav.oz. 4	43

Melt the lead plaster and stir constantly while liquid, until it assumes a dark brown tint; add the wax and lard; allow to cool somewhat, and pour into molds.-Austr. Pharm.

II. A more rational and easy method of preparation is the following:

Black mother plasterav	v.oz. 8
Lard	1.0z. 61/2
Yellow waxav	1.0z. 11/2

Melt the plaster and wax, add the lard, allow to cool somewhat, and pour into molds as before.-D.

Cerate of Calamine. (Turner's Cerate.

-Cerate of Zinc Carbonate.)
Zinc carbonateav.oz. 1
Simple cerateav.oz. 5
-Eclectic.

Under the name "Turner's cerate," the placed in 5-per-cent alcoholic solution of National Formulary gives a preparation of the same strength as the above, but made with simple ointment.

## Cerate, Calendula.

Lard, fresh.....av.oz. 8 Fluid extract of calendula.....fl.oz. 1

Heat on a water bath until the alcohol has evaporated, stirring frequently meanwhile.

Another method consists in digesting the flowers with melted lard for about 10 minutes, stirring occasionally; then strain, and stir frequently until cooled. It is advisable to add about 2 av.ounces of yellow wax.

#### Cerate of Copaiba.

Yellow wax, filtered.....av.oz. 21/4 Balsam of copaiba.....av.oz. 51/2

Melt the wax and, when it begins to cool, add the balsam; the two will mix more readily if the balsam be warmed to 30 or 40 degrees C. before adding to the wax.—D.

#### Cerate, Green. (Ceratum Aeruginis.)

Yellow waxav.oz.	8
Resinav.oz.	434
Gum turpentineav.oz.	11/2
Verdigris, powderedgr.	350
Benzoinated lardgr.	180
Olive oilfl.dr.	8

Melt the wax, resin, and turpentine together, add the verdigris, which has previously been triturated to a smooth paste with the lard and oil, mix well, and pour into molds.—D.

#### Cerate of Nutmeg.

Refer to "Balsams."

#### Cerate of Soap.

Soap plasterav.oz.	
Yellow waxav.oz.	41/2
Olive oilfl.oz.	8

Melt the wax and plaster, add the oil, and stir until cool.—U. S. P. 1870.

#### Chlorodyne.

Under the name "J. Collis Browne's Chlorodyne," an English nostrum was at one time used largely, not only in England, but in this country as well. A number of substitutes have been and are still in use, the formulas for which differ from one another more or less, sometimes quite materially. The National Formulary recognizes one of these preparations under the name of "Mis-

tura Chloroformi et Cannabis Indicæ Composita,'' or chloroform anodyne, made as follows:

I.	
Chloroformfl.	oz. 2
Etherfl.	dr. 4
Tincture of cannabis indicafl.	oz. 2
Tincture of capsicumfl.	oz. 1
Morphine sulphate	gr. 18
Oil of peppermint	
Glycerinfl.	oz. 2
Waterfl.	oz. 1
Alcohol, enough to makefl.	oz. 16

Dissolve the oil in 8 fluidounces of alcohol, add the chloroform, ether and tinctures, mix well, add the morphine sulphate previously dissolved in the water and glycerin; finally add the remainder of the alcohol.

#### II.

Chloroformfl.dr.	2
Morphinegr.	10
Etherfl.dr.	
Oil of peppermintdrops	8
Diluted hydrocyanic acid fl.dr.	2
Tincture of capsicumfl.dr.	2
Molasses fl.oz.	
Extract of licoricegr.	30´

This is said to resemble Browne's very closely.

III. Chandler's formula:

Morphine hydrochlorategr.	16
Oil of peppermintdrops	20
Tincture of capsicumdrops	30
Fluid extract of cannabis indica.fl.dr	1
Alcoholfl.oz.	
Glycerinfl.oz.	2

IV. Modified Smith's formula:

Chloroformfl.dr. 4
Morphine hydrochlorategr. 20
Oil of peppermintdrops 8
Tincture of capsicumdrops 50
Diluted hydrocyanic acidfl.dr. 2
Mucilage of acaciafl.oz. 1
Fluid extract of cannabis indica. fl.dr. 2
Simple syrup, enough to makefl.oz. 4
Solution of caramel, sufficient to color properly.

V. Squires' formula:

Chloroformfl.oz.	1
Stronger etherfl.dr.	2
Alcoholfl.oz.	1
Molassesfl.oz.	1
Extract of licorice, powdered.gr.	300
Morphine hydrochlorategr.	2
Oil of peppermintdrops	4
Simple syrupfl.oz.	41/2
Diluted hydrocyanic acidfl.dr.	4´

Dissolve the morphine and oil of peppermint in the alcohol, mix the chloroform and ether with this solution, mix the licorice with the syrup, add the molasses, shake these two mixtures well together, and, lastly, add the hydrocyanic acid and again shake well.

VI. Gilman's formula:

Chloroform fl.dr. 2	
Glycerinfl.oz. 2	
Alcoholfl.oz. 2	
Spirit of peppermintfl.dr. 2	
Diluted hydrocyanic acidfl.dr. 2	
Tincture of capsicumfl.dr. 2	
Morphine hydrochlorategr. 8	
Molasses fl.oz. 3	
MOId55C5	

VII. Fenner's formula No. 1:

Chloroformfl.oz.	1
Fluid extract cannabis indicafl.oz.	1
Compound spirit of etherfl.oz.	
Deodorized tincture of opium.fl.oz.	11/2
Diluted hydrocyanic acidfl.dr.	3
Oleoresin of capsicumdrops	8

Dissolve the oils in the chloroform, add the compound spirit of ether, and mix.

VIII. Fenner's formula No. 2:

Morphine sulphategr.	15
Chloroformfl.oz.	
Fluid extract of cannabis indica.fl.oz.	1
Glycerinfl.oz.	1
Alcoholfl.oz.	
Diluted hydrocyanic aciddrops	15
Spirit of peppermintdrops	15

Mix the liquids and dissolve the morphine in the mixture.

#### Chloroform of Aconite. ---(Aconite

Chloroform.)

Aconite root	av.oz 11
Water of ammonia	fl.oz. 2
Distilled water	fl.oz. 10
Chloroform	.sufficient.

Bruise the aconite, moisten thoroughly with the distilled water and ammonia previously mixed, macerate for 4 hours, dry carefully, reduce to No. 40 powder, pack tightly in a percolator (such as would be used for highly volatile liquids), macerate for 24 hours with 11 fluidounces of chloroform, and then percolate slowly, adding more choloroform until 16 fluidounces of product are obtained. —Brit. Form.

"Chloroforms" of other alkaloidal drugs, such as belladonna, hyoscyamus, etc., may be produced in the same manner.

## Chloroform, Camphorated.

Chloroformfl.oz. 4
Camphor
Mix and dissolve.—Brit. Form.

#### Collodion, Aconite.

Aconite root, in fine powder.	av.oz.	81
Stronger ether	. fl.oz.	12´¯
Alcohol	. suffici	ent.
Balsam of fir	gr.	240
Pyroxylin	gr.	60

Pack the powder very tightly in a percolator intended for volatile liquids, mix the ether with 4 fluidounces of alcohol, saturate the drug with this liquid, macerate for about 16 hours, then percolate slowly, adding enough alcohol through the percolator so as to make 16 fluidounces of percolate. In this dissolve the balsam and pyroxylin.

## Collodion, Belladonna.

This may be prepared in the same way as the preceding, using belladonna leaves instead of aconite root.

## Collodion, Cantharidin.

I.

Cantharidingr. 3	
Gum turpentineav.oz. 1	
Acetonefl.dr. 3	
Collodion, enough to makefl.oz. 8	

Triturate the cantharidin with the turpentine to as fine a powder as possible, then add the acetone and heat the mixture very cautiously until solution occurs; then add to the collodion. If a green color be desired, add a small amount of English extract of cannabis indica.—D. modified.

II. This contains is per cent of	canthardin.
Cantharidin	gr. 41/2
Cottonseed or olive oil	fl.dr. 21/2
Collodion, enough to make	fl.oz. 8

Triturate the cantharidin with the oil, add to the collodion, and agitate until dissolved. If desired of a green tint, color as before.— D. modified.

## Collodion, Carbolated.

Carbolic acid, crystalgr.	150
Collodion fl.oz.	8
Oil of rosedrops	2
•	D

The product contains 5 per cent of acid.

#### Collodion, Chrysarobin.

Chry	sarobin				gr. 9	20
Collo	dion			fl	.oz.	8
The	chrysarobin	should	be	in	very	fine

powder and be dissolved in the collodion by agitation.—D.

The product contains 10 per cent of chrysarobin.

#### Collodion, Carbolated Salicylic, Unna.

Carbolic acid, crystalav.oz.	1
Salicylic acidav.oz.	1
Collodion fl.oz.	5
Mix and dissolve by agitationD.	

The product contains one-third by weight of the combined acids.

**Collodion, Diachylon.** (Collodion with Lead Plaster.)

Lead plastergr.	280
Alcoholfl.dr.	
Stronger etherfl.dr.	14
Collodion, enough to make fl.oz.	8

Melt the plaster by warming, add the alcohol and ether, stir quickly until dissolved, and add at once to the collodion.—D.

The product contains 5 per cent of lead plaster.

#### Collodion, Iodized.

Iodine,	reduced	to	powder	 gr.	160
Flexible	e collodio	n.		 . fl. oz.	8

Introduce the iodine into a bottle, add the flexible collodion and agitate until the iodine is dissolved.—N. F.

## Collodion, Iodoform.

Iodoform	1gr.	160
Flexible	collodionfl.oz.	8

Mix and dissolve the iodoform in the flexible collodion by agitation.—N. F.

## Collodion, Iodol.

Iodol	300
Alcoholfl.oz.	11
Etherfl.oz.	5%
Pyroxylin	120
Castor oil. fl.dr.3 (or gr. 160 if weig	ghed.)

Dissolve the iodol in the mixture of alcohol and ether, add the pyroxylin in small portions, agitate until dissolved, and finally add the oil. The product contains 10 per cent. of iodol.

#### Collodion, Iron.

Solid chloride of iron.....gr. 300 Flexible collodion.....fl.oz. 7½ Oil of sage.....drops 10 Dissolve by agitation.—D.

The product contains 10 per cent of ferric chloride.

Collodion, Mercuric Chloride. (Corrosive Sublimate Collodion.—Sublimated Collodion.)

Corrosive sublimate, powdered..gr. 150 Flexible collodion.....fl.oz. 8

Dissolve the salt in the collodion by agitation. If the salt be on hand only in the crystalline form, it should be triturated dry to powder.—D.

The product contains 5 per cent of corrosive sublimate.

#### Collodion, Photographer's.

Pyroxylin	gr. 275
Alcohol	fl.oz. 21
Alcohol Absolute alcohol	fl.oz. $4\frac{1}{2}$
Stronger ether	fl.oz. 10 to 12

Add the pyroxylin to the alcohol, shake well, and add the absolute alcohol and ether.

This contains almost 5 per cent of gun cotton, and is therefore stronger than the official collodion.

#### Collodion, Salol.

Salolgr.	280
Stronger etherfl.oz.	
Collodionfl.oz.	7

Dissolve the salol in the ether and add the collodion.—D.

The product contains 10 per cent of salol.

#### Collodion, Thymol.

Thymolgr.	150
Collodionfl.oz.	8
Dissolve by agitationD.	

#### Collodion, Thiol, Jacobsen.

Thiol, powdergr. Flexible collodionfl.oz.	
	D.

#### Concentrations.

This class of preparations was originally introduced by physicians of the Eclectic school of medicine and subsequently was employed by physicians of other schools. They are now employed in Europe; also one, at least, has found recognition in the United States Pharmacopœia, viz., podophyllin.

The general plan for their manufacture originally consisted in extracting the drug with strong alcohol, evaporating this tincture to small bulk, adding to cold water, stirring constantly meanwhile, allowing the precipitate formed to subside, collecting the latter, and drying and powdering it.

If the drug contain an oleoresin, the precipitate cannot be dried sufficiently to powder, but remains a soft, sticky mass. In this case, the precipitate should be dried sufficiently to remove the water, then add enough of the original drug, in powdered form, to reduce to a rather tough mass, break the latter into small pieces, dry in warm air, and pulverize as before.

In many instances, there would be, by the use of water alone as a precipitating agent, an inappreciable amount of precipitate. In such cases, alum is added to the water and some ammonium carbonate to the alcoholic liquid. The precipitate contains aluminium hydrate, and the product will very often be green from precipitated chlorophyll.

Other substances are added to the water to facilitate precipitation, such as acids and alkalies, depending, of course, upon the character of the drug.

While the above methods of preparing concentrations were advised by Eclectic practitioners, other methods are in vogue among manufacturers. In many instances, the concentration is simply a powdered extract, the so-called "euonymin," for example, the drug often being exhausted with dilute alcohol or water. Instead of using the powdered drug as a drying agent, as is stated above, most manufacturers use milk sugar, magnesia or other absorbent powder.

Most of the concentrations are supposed to be resinous in character, and are termed "resinoids," while others are alkaloidal in character. The latter are believed to be prepared by exhausting the drug with a very dilute acid (from  $\frac{1}{2}$  to 3 per cent), usually hydrochloric or sulphuric, evaporating the liquid obtained to moderate bulk, adding ammonia to neutralize the acid, collecting the precipitate, and washing and drying it. Hydrastis and sanguinaria are drugs treated in this manner.

As may be surmised from what has been stated, concentrations from different manufacturers differ from each other greatly in quality and strength and color, as well as in other properties.

The nomenclature of the concentrations is very confusing. The resinoids have names ending in "in"-cornin, helenin, etc.-while those of alkaloidal character are known by names ending either in " in " or " ia," and are coupled with names indicating the acid employed in extraction, e.g., hydrastia sulphate, sanguinarin nitrate, etc. Manufacturers of pharmaceuticals have not only modified the processes of preparation, but have introduced innovations in the titles. When it is borne in mind that glucosides have names terminating in "in," and that alkaloidal names end in "ine" ("ia" is also used), and that almost all drugs contain glucosides or alkaloids or even both, one can readily see that almost inextricable confusion must result, often to the serious detriment of sick persons. This is the case particularly with the derivatives of hydrastis and sanguinaria.

The following table is presented because of its convenience for reference. It will not apply to the products of all manufacturers, nor does it mention all concentrations, but it may prove useful nevertheless.

Class I. Concentrations consisting largely of resin and nearly or entirely soluble in alcohol:

Aletridin,\* Asclepidin,\* Cimicifugin (Macrotin), Eryngin,\* Helonin,\* Iridin \* Liatrin,\* Podophyllin (U. S. P.),Ptelein.\*

The pulverulent resinoids of aletris and iris versicolor are known as above, while the soft, oleoresinous articles are called aletrin and irisin.

Class II. Concentrations which generally contain inorganic constituents from the process of manufacture, and are frequently of a green character:

Barosmin, Euonymin (green variety), Lobelin, Lycopin, Podophyllin (yellow variety), Scutellarin, Senecin.

Class III. Concentrations which contain a number (probably most) of the soluble drug constituents:

Aletrin,\* Alnuin, Ampelopsin, Apocynin, Asclepidin,\* Baptisin, Betulin, Caulophyllin, Cerasin, Chelonin, Chimaphilin, Chionanthin, Collinsonin, Colocynthin, Cornin, Corydalin, Cypripedin, Dioscorin, Euonymin (brown variety), Eupatorin, Euphorbin, Eupurpurin, Fraserin, Gelsemin, Geranin, Gossypin, Hamamelin, Humulin, Inulin, Irisin,\* Jalapin, Juglandin, Leontodin, Leptandrin, Liatrin,\* Liriodendrin, Menispermin, Myricin, Phytolaccin, Prunin, Rhusin, Rumicin, Smilacin, Stillingin, Taraxin, Trillin, Viburnin, Xanthoxylin.

Class IV. Concentrations which consist of alkaloids or alkaloidal salts in more or less impure form:

Hydrastin, Hydrastia Sulphate, Muriate, etc.; Sanguinarin, Sanguinarina Nitrate, Sulphate, etc.

Those concentrations whose names have the stars appear in the market in both pulverulent and oleoresinous forms.

#### Confection, Aromatic. (Electuaries.)

Mix aromatic powder with an equal weight of honey or a sufficient quantity to form a stiff paste.-U. S. P. 1870.

Confection of Calamus. (Sugared Calamus -Candied Sweet Flag )

mus Canalea Sweet I lag. )	
Calamus root, peeled, sliced and cut into pieces about 1/2 inch	
longav.oz.	8
Waterfl.oz.	
Sugar	96

Macerate the root in the water for twelve hours, add the sugar, and heat, stirring constantly until perfectly dry. At first the evaporation may be conducted over a direct flame or fire, but toward the latter end of the operation, water-bath temperature only must be employed.

Confection of Copaiva. (Electuaire de Copahu.)

Balsam of copaibaav.oz.	4
Cubeb, powderedav.oz.	6
Catechu, powderedav.oz.	
Oil of peppermintfl.dr.	

Mix the whole well together.-Codex.

#### Confection of Figs. (Medicated Figs.)

Figsav.oz.	8
Waterfl.oz.	16
Cinnamon, fine powder, gr.	120
Sugarav.oz.	10
Senna, fine powderav.oz.	

Pour hot water on the figs, macerate until

tained, add the senna and cinnamon, and mix well.

See also "Confection of Senna," U.S. P..

## Confection of Hollyhock, Thompsonian.

Poplar barkav.oz.	1/2
Bayberry barkav.oz.	1/2
Golden sealav.oz.	
Clovesav.oz.	
Cinnamonav.oz.	1/2
Cypripediumav.oz.	1/2
Capsicumgr.	110
Oil of pennyroyalfl.dr.	2
Hollyhock flowersav.oz.	8

Mix the first six ingredients in powder form, add the oil, and incorporate the whole with the flowers, mixing as well as possible, and forming balls the size of small marbles..

#### Confection of Opium. (Electuary of Theriac.-Theriac.)

I.	
Compound powder of opium.av.oz.	5%
Simple syrupfl.oz.	111
-Brit. Ph	arm.

# IL

Powdered opiumgr.	260
Aromatic powderav.oz.	61/
Clarified honeyav.oz.	
—U. S. P.	1870.

III.

Opiumgr.	
Angelica rootgr.	
Virginia snake rootgr.	220
Valerian rootgr.	110
Squillgr.	110
Zedoarygr.	
Cassia barkgr.	
Cardamomgr.	55
Cloves	55
Myrrhgr.	55
Iron sulphate, crystalgr.	55
Glycerin,	
Simple syrup,	
Honey, equal parts of each,	
enough to makeav.oz.	121/2

Mix the ingredients above in powder form, or preferably mix them whole, and then reduce to powder; then add the glycerin, syrup and honey.-H.

The cardamom should be used without the capsule or enveloping membrane.

These preparations differ in many respects, but the most noteworthy difference is in the proportion of opium, the first two containing softened, strain with expression, add the about 2½ per cent of this drug, the last sugar, heat until a soft pulpy mass is ob- about 1 per cent, and the kind of confection to be dispensed will depend on the nationality of the consumer or the kind he has been in the habit of using.

#### Confection of Pepper.

Black pepper, powdered......gr. 350 Caraway, powdered......gr. 525 Clarified honey.....av.oz. 6 —Brit. Pharm.

**Confection of Prunes.** (Medicated Prunes.)

Prunes, stoneda	v.oz.	8
Water	fl.oz.	16
Citric acid, powdered	gr.	60
Tincture of ginger	fl.oz.	1
Sugara		
Senna, fine powdera		

Pour hot water on the prunes, macerate until softened, strain with expression, add the sugar and acid; heat until a pulpy mass is obtained, add the senna and tincture, and mix well.

See also "Confection of Senna," U. S. P.

#### Confection of Rhubarb, Compound.

Rhubarb, powderedgr.	350
Fennel, powderedgr.	850
Licorice root, powdered av. oz.	134
Senna, powderedav.oz.	1 34
Sugar, powderedav.oz.	81/2
Tamarind pulp, purified av. oz.	31/2
Syrup of mannafl.oz.	4
, ,	-D.

#### Confection of Sulphur.

Suphurav.oz.	6¥
Cream of tartarav.oz.	11
Syrup of orangefl.oz.	5
Tragacanth, powderedav.oz.	
-Brit. Pha	rm.

#### Confection of Tamarind.

#### I.

Tamarind pulpav.oz.	6½
Sugar, powderedav.oz.	912
	—II.

II.	
Tamarind pulpav.oz.	21/2
Sugar, powderedav.oz.	21/2
Senna, powderedgr.	850
Cream of tartargr.	70
Mannaav.oz.	
Warm waterav.oz.	8

Dissolve the manna in the water, strain, add the other ingredients, mix well, and evaporate the whole at a low temperature to proper consistency.—H.

#### Conserves.

In conformity to the custom of the United States pharmacopteia, preparations formerly

under this title are here classed with the confections.

Copper, Aluminated. (Sapis divinus. Augen Stein.)

Copper sulphate, pureav.oz.	
Potassium nitrateav.oz.	2
Potassa alumav.oz.	2
Camphorgr.	55

Triturate the three salts separately to fine powder, then mix, melt carefully in a porcelain evaporating dish over a hot fire, then quickly add the camphor in a powdered state and previously mixed with an equal weight of powdered alum, and pour the whole out on a porcelain slab.—Germ. Pharm.

When cold, it may be broken into pieces or rubbed to powder, and then preserved in well-stoppered bottles.

### Copper, Ammoniated.

Ammonium carbonate.....av.oz. 3 Copper sulphate.....av oz. 4

Triturate together until effervescence ceases, then lay between folds of bibulous paper and dry. Keep in well-stoppered bottles.

#### Cordials.

The above title is applied to many preparations which vary greatly in character, and could not properly be placed under one heading. Some occur under other more appropriz te titles in this part; others may be found in Parts II and IV. Consult index.

## Cotton, Absorbent. (Purified Cotton, U. S. P.)

Ordinary cotton contains, in addition to the dirt and other matter that accompany it, some fatty and coloring matter. The fatty matter does not permit the cotton to absorb water or aqueous fluids to any appreciable extent, and the unpurified is therefore of no value for surgical and pharmaceutical purposes.

There are several methods by which ordinary cotton may be rendered absorbent. An easy process is to wash it repeatedly with ether, which, of course, extracts or dissolves out the fatty matter. The first portions of ether may be economically replaced by gasolin or petroleum ether, finishing the washing with ether so as to avoid the odor of gasolin in the product. By means of this process cotton can be rendered absorbent and be dried in a very few minutes.

The process adopted by manufacturers on the large scale is usually about as follows:

Boil any desired quantity of the best corded cotton with a 5-per-cent. solution of caustic potassa or soda for one-half hour, or until the cotton is entirely saturated with the solution, and the alkali has saponified all the fatty matter; wash thoroughly in clear water to remove all the soap and nearly all the alkali; press out the excess of water; place in a 5-per-cent solution of chlorinated lime, allowing to remain for 15 or 20 minutes; again wash first in some clear water, then dip in water acidulated with hydrochloric acid, and wash again thoroughly in clear water: press out the excess of water and again boil for 15 or 20 minutes in 5-per-cent alkali solution; now wash well in clear water, dip in water acidulated with hydrochloric acid, and again wash thoroughly in clear water; now press out the water and dry.

Owing to the cellular character of cotton, it is very likely to absorb a liquid and not readily give it up again; hence when cotton is to be well washed, it should be kneaded with the hands or otherwise. In removing excess of water or other liquid, an ordinary clotheswringer will be found to serve the purpose admirably. Cotton batting, as purchased, ordinarily occurs in rolled sheets; if care be taken in the above manipulation, the product can be made to retain this "sheet" form.

Medicated Cottons.—These are prepared by impregnating good absorbent cotton by means of immersion in liquid containing the medicating substance. Sometimes a large excess of liquid is employed for impregnation, the excess being removed by subsequent expression; or else only so much is used as that when the whole is taken up by the cotton, the latter will contain the requisite or prescribed amount of medicament. In the former case, the expression may be by means of an instrument like an ordinary clotheswringer, conducting the expression so that the liquid which the cotton is allowed to retain will yield a proper strength of finished

product. In either case, therefore, the result is identical, and while preference is usually given, in the formulas which follow, to the use of a large amount of liquid, the other process may be substituted, the result always depending more on the care and skill of the operator than on any other circumstance. In impregnating cotton, it may be necessary to knead the latter with the liquid, and sometimes even to macerate for one or two hours: if the small quantity of liquid be used, then the cotton must be weighted down in some convenient manner. In expressing cotton after impregnating in a large quantity of liquid, it may be advisable to wrap the cotton in parchment paper to protect it from the press; if salicylic acid be present, the solution and cotton must not be allowed to come in contact with any iron parts. Cotton must always be passed through the press evenly to medicate uniformly.

Drying of impregnated cotton may be done on screens either in a drying closet or in a room which is dry and perfectly aseptic or clean.

Good absorbent cotton, when dipped in water, will take up or retain, after expression, twice its weight of liquid, each pound of dry cotton yielding therefore three pounds of moist cotton.

All prepared cottons should be kept in suitable receptacles or wrappers such as glass, parchment paper, paraffined paper, paraffined or resin-coated pasteboard boxes, etc., to prevent loss by evaporation or accession of septic matter.

Cotton, Aluminium Acetate, Burow. Solution of aluminium acetate. fl.oz. 16 Distilled water.....fl.oz. 32 Absorbent cotton.....av.oz. 16 Proceed as with borated cotton...D.

Cotton, Antirheumatic. (Gicht Watte.)

Oil of birch tar, rectifieddrops 12
Oil of turpentine, rectified drops 12
Oil of juniper wooddrops 12
Oil of clovesdrops 12
Oil of rosemarydrops 12
Camphorgr. 20
Alcohol 51/2
Absorbent cottonav.oz. 16

the liquid which the cotton is allowed to re- Dissolve the oils and camphor in the alcotain will yield a proper strength of finished hol, filter, and moisten the cotton with the filtrate in any convenient way, as, for example, by means of an atomizer. During this moistening the cotton should be picked into thin layers, and be turned about frequently so as to impregnate evenly. Dry by exposure to atmosphere for one hour, and wrap in waxed paper or other suitable container.—D.

т	T
T	1.

Red saundersgr.	96
Benzoingr.	20
Peru balsam,gr.	5
Alcoholfl.dr.	8

Macerate for several days, filter and impregnate cotton with filtrate as in the preceding.—H. modified.

## Cotton, Arnicated.

Tincture of arnicafl	.oz.	21%
Ģlycerinfl	. oz.	21/2
Âlcoholfl	.oz.	84
Distilled waterfl	.oz.	12
Absorbent cottonav	.oz.	16

Immerse the cotton in the liquid, press out to the weight of 48 av. ounces, dry carefully, and pack into containers.—D. modified.

The finished product represents 10 per cent of tincture of arnica of the weight of the cotton used. Inasmuch as tincture of arnica U. S. P. is double the strength of the tincture of the German Pharmacopæia, this 10 per cent corresponds to 20 per cent of the tincture of arnica of the latter work.

#### Cotton, Benzoated, Bruns, Jr.

9	p. c.	4 p. c.
Benzoic acidgr.	315	420
Castor oilfl.oz.	1	1
Alcoholfl.oz.	54	54
Absorbent cottonav.oz.	16	16
5	p. c.	10 р. с.
Benzoic acidgr.	525	-
Benzoic acidgr. Castor oilfl.oz.		-
	1	1050

Dissolve the acid in the alcohol, add the oil, saturate the cotton with this liquid, prepared after any of the given proportions, then press it until it weighs 48 av. ounces, and dry it at a temperature not exceeding 30 degrees C.—D.

### Cotton, Borated.

#### 5 per cent.

Boric acidgr.	525
Distilled water, hotfl.oz.	43
Absorbent cottonav.oz.	16

#### 10 per cent.

Boric acidgr.	1050
Distilled water, hotfl.oz. Absorbent cottonav.oz.	40 X 16

#### 20 per cent.

Boric acidav.oz.	- 4X
Distilled water, hotfl.oz.	<b>4</b> 0´Ť
Absorbent cottonav.oz.	16

Dissolve the acid in the water, immerse the cotton in the solution, press out to the weight of 48 av. ounces, and proceed as before.—D. modified.

#### Cotton, Carbolated, Bruns, Jr.

#### 5 per cent.

Carbolic acid, crystalgr.	525
Castor oilfl.dr	4
Resin	41
Alcoholfl.oz.	481
Absorbent cottonav.oz.	

#### 10 per cent.

Carbolic acid, crystalgr.	1050
Castor oilfl.oz.	1
Resin av.oz	74
Alcoholfl.oz.	42 3
Absorbent cottonav.oz.	

Dissolve the resin in the mixed oil and alcohol by agitation, filter, impregnate the cotton as before, pressing out to the weight of 48 av.ounces, and drying without heat. Pack immediately in air-tight containers.—D.

#### Cotton, Cocaine.

Cocaine hydrochlorategr.	210
Distilled waterfl.oz.	74
Alcoholfl.oz.	914
Absorbent cottonav.oz.	16

Dissolve the cocaine salt in the water, add the alcohol, saturate the cotton with the liquid (the cotton being kept below it by means of weights, but on removal, it is to retain the whole of the liquid), and dry at 30 degrees C.-D.

The product contains 3 per cent of the alkaloidal salt.

### Cotton, Cocaine-Borated.

Cocaine hydrochlorategr.	140
Boric acidgr.	
Carbolic acid, crystalgr.	210
Glycerinfl.dr.	
Alcoholfl.oz.	914
Distilled water, hotfl.oz.	1132
Absorbent cottonav.oz.	16

Dissolve the boric acid in the distilled water and glycerin, add the cocaine salt, car-

bolic acid and alcohol, saturate the cotton as in the making of cocaine cotton, and dry by exposure to the air. This is considered useful in dressing burns and scalds.—D.

#### Cotton, Cocaine-Morphine.

Cocaine hydrochlorategr.	210
Morphine hydrochlorategr.	105
Alcoholfl.oz.	13 3
Distilled waterfl.oz.	91⁄4
Absorbent cottonav.oz.	16

Prepare this like the two preceding. This is used for tamponing carious teeth, to allay toothache.—D.

#### Cotton, Ichthyol.

20 per cent.

Ichthyol-ammoniumav.oz.	4%
Alcohol fl.oz.	11 34
Distilled waterfl.oz.	291/2
Absorbent cottonav.oz.	16

#### 50 per cent.

Ichthyol-ammoniumav.oz.	12
Alcoholfl.oz.	131/2
Distilled waterfl.oz.	22
Absorbent cottonav.oz.	

Dissolve the ichthyol in the alcohol and water, saturate the cotton with the solution, press out to the weight of 48 av.ounces, and dry at a temperature not to exceed 25 degrees C.—D.

#### Sotton, Iodized.

Place the iodine at the bottom of a widemouth glass vial, insert the cotton, tie over the mouth with parchment paper wetted with glycerin, place the vial in a water-bath of from 50 to 60 degrees C., and continue the heat until all of the iodine has been vaporized and the cotton is evenly impregnated with it. Pack in well-closed glass containers.—D.

The product is called a 10-per-cent cotton; practically it contains but 9 per cent of iodine.

#### Cotton, Iodol.

Iodolgr.	1050
Glycerin	
Alcoholfl.oz.	
Absorbent cottonav.oz	<b>16</b>

Dissolve the iodol in the alcohol with the aid of a little heat (50 degrees C.), gradually add the glycerin, saturate the cotton with the solution, kneading thoroughly, and proceed

as described under iodoform cotton, pressing out to 48 av. ounces.—D.

The product is a 10-per-cent medicated cotton.

#### Cotton, Iodoform, Mosetig.

#### 5 per cent.

Iodoformgr.	525
Etherfl.oz.	16 🖌
Ether	40 3
Absorbent cottonav.oz	16´

#### 10 per cent.

Iodoformgr.	1050
Castor oilfl.dr.	
Resingr.	
Ether fl.oz.	
Alcoholfl.oz.	2716
Absorbent cotton av.oz.	16

#### 20 per cent.

Iodoformav.oz.	41
Castor oilfl.dr.	12
Resin	11/2
Etherfl.oz.	4212
Alcoholfl.oz.	91
Absorbent cottonav.oz.	16

Dissolve the iodoform in the ether and alcohol, add the resin and castor oil if they be used, agitate until dissolved, saturate the cotton with the solution, wrap in thin parchment paper, puncture a number of holes along the edge, and press out to the weight of 48 av. ounces. This work must be performed with a certain amount of celerity. Dry in the open air, excluding daylight during the entire operation.—D.

A better mode of preparation for iodoform cotton is to use only so much solution that, when all is absorbed, the fabric will contain the proper proportion.

# Cotton, Mercuric Chloride. (Sublimated

Cotton.)

1. Schede's process:

1/4 per cent.		
Mercuric chloridegr.	26	
Glycerin	- 33	1
Alcoholfl.oz.	13	•
Distilled waterfl.oz.	82	
Absorbent cottonav.oz.	16	
1/2 per cent.		
Mercuric chloridegr.	52	
Glycerinfl.oz.	31	4
Alcoholfl.oz.	18	•
Distilled waterfl.oz.	32	
Absorbent cottonav.oz.	16	
Dissolve the corrosive sublimate	in	the

mixed liquids, filter, and impregnate the cotton as before.

Link and Voswinkel's process:
 ½ per cent.

/ <b>+</b> I · · · · · ·	
Mercuric chloridegr. 2	6
Lithium chloridegr. 2	6
Alcoholfl.oz. 1	81
Distilled waterfl.oz. 3	2
Absorbent cottonav.oz. 1	6
1/2 per cent.	
Mercuric chloridegr. 5	2
Lithium chloridegr. 5	
Alcoholfl.oz. 1	81/2
Distilled waterfl.oz. 3	

Absorbent cotton.....av.oz. 16

Proceed as before and press out to the weight of 48 av. ounces; dry at a temperature of 25 to 30 degrees C.

Ordinarily sublimated cotton suffers dimi nution in strength due to reduction of the mercuric chloride. This is ascribed to lack of care in preparing the absorbent cotton used, the presence of glycerin and of stearic acid to impart a brilliant whiteness, and creaking sound when pressed between the fingers, etc. The second process is supposed to yield a permanent product. The lithium chloride is intended to replace the glycerin of other processes.

3. With tartaric acid, ¼ per cent.	:
Mercuric chloridegr.	26
Tartaric acidgr.	105
Alcoholfl.oz.	27 1/4
Distilled.waterfl.oz.	24
Absorbent cottona.v.oz.	16

Proceed according to the usual mode, press out to the weight of 48 av. ounces, and dry under exclusion of daylight.—D.

4. Lister's sero-sublimate cotton,  $\frac{1}{2}$  per cent.:

Mercuric chloridegr.	52
Horseblood-serumav.oz.	12
Distilled waterfl.oz.	341
Absorbent cottonav.oz.	16

Dissolve the corrosive sublimate by trituration in the blood-serum, add the water, and saturate the cotton with the liquid; press out to 48 av. ounces.

If horseblood-serum cannot be had, dissolve 52 gr. of corrosive sublimate and 210 gr. of sodium chloride, by trituration in 770 gr. of egg-albumen diluted with 46 fluidounces of distilled water, and in this soak the cotton.

Dry at a temperature not exceeding 30 degrees C., and keep from the light.—D.

This cotton really contains mercury in the form of albuminate.

5. Sal alembroth cotton:

Mercuric chloridegr.	26
Ammonium chloridegr.	
Alcoholfl.oz.	
Distilled waterfl.oz.	
Absorbent cotton av.oz.	
Immerse the cotton in the solut	ion ar

Immerse the cotton in the solution and press out to the weight of 48 av. ounces; dry in the dark.—D.

#### Cotton, Naphthalin.

Naphthalingr.	1050
Resingr.	210
Castor oilfl.dr.	24
Alcoholfl.oz.	52
Absorbent cotton av.oz.	16

Dissolve the solids in the liquids with the aid of heat, soak the cotton in the hot solution, and quickly express to 48 av. ounces; dry by exposure to air.—D.

The product is a 10-per-cent medicated cotton.

#### Cotton, Resorcin.

#### 3 per cent.

Resorcingr.	315
Glycerinfl.dr.	
Alcoholfl.oz.	161
Distilled waterfl.oz.	31
Absorbent cottonav.oz.	16
5 per cent	

Resorcingr.	525
Glycerin fl.oz.	1
Alcohol fl.oz.	
Distilled waterfl.oz.	
Absorbent cottonav.oz.	16

Proceed in the usual manner, pressing out to the weight of 48 av. ounces; dry at a temperature between 25 and 30 degrees C.

#### Cotton, Salicylated.

1.	Process	of	Br	uns,	Jr. :
			5	per	cent.

Salicylic acidgr.	525			
Castor oilfl.dr.	6			
Alcoholfl.oz.	53			
Absorbent cottonav.oz.	16			
10 per cent.				
Salicylic acidgr.	1050			
Castor oilfl.dr.				
Alcoholfl.oz.	51			
Absorbent cottonav.cz.	16			

Dissolve the acid in the alcohol, add the oil, and proceed in the usual way, pressing out to the weight of 48 av. ounces; dry at a temperature between 25 and 30 degrees C. —D.

#### 2. Thiersch's process:

#### 4 per cent.

Salicylic acidgr.	420
Glycerinfl.dr.	1
Alcoholflo.z.	8
Distilled water, hot fl.oz.	39
Absorbent cottonav.oz.	16
10 per cent.	
Salicylic acidgr.	1050
	24
	15 <del>.</del>
Distilled water, hotfl.oz.	31
Absorbent cottonav.oz.	16

Dissolve the acid in alcohol, add the glycerin and water, and proceed as before.

Cotton,	Styptic.	(Hemostatic	Cotton
Ferr	ated Cotton	n.)	
T			

Absorbent cotton, Solution of chloride of iron, Glycerin, Water .....of each sufficient.

Mix the liquids in the proportion of 5 parts of the iron solution, 1 part of glycerin, and 4 parts of water, in such quantities that the cotton shall be completely immersed in the liquid when gently pressed. Allow the cotton to remain in the liquid one hour, then remove it, press it until it has been brought to twice its original weight, spread it out in thin layers, in a warm place, protected from dust and light, and when it is sufficiently dry, transfer it to well-closed receptacles.— N. F.

#### II.

Solution of ferric chloride	.fl.oz.	61
Glycerin.	.fl.oz.	1
Distilled water	. fl.oz.	18
Alcohol	.fl.oz.	184
Absorbent cotton	av.oz.	16

Impregnate and press the cotton in the usual manner; dry with exclusion of daylight, and keep the product in amber-colored bottles.—D. modified.

III.

Solution	of chloride of	iron
(Germ	. Pharm.sp.gr. 1	.28).fl.oz.
Clycerin		í flor

Glycerin fl.oz.	1
Water	191
Alcoholfl.oz.	
Purified cottonav.oz.	

in, then press it until the product weighs 48 av. ounces, and dry it at a gentle heat, with exclusion of light.

One hundred parts contain about 25 parts of anhydrous ferric chloride.

Keep the product protected against light. --Germ. Form.

The 9 fluidounces of solution of ferric chloride of the German pharmacopæia used in the last formula corresponds to 7 fluidounces of the solution of the United States Pharmacopæia.

#### Cotton, Tannin-Carbolated.

(Tannin, 10 per cent; carbolic acid, 8 per cent)

Tannic acidgr.	1050
Carbolic acid, crystalgr.	840
Castor oilfl.oz.	4
Alcoholfl.oz.	46 <del>1</del>
Absorbent cottonav.oz.	

Dissolve the acids in the alcohol and oil, impregnate and press the cotton in the usual manner, and dry in the open air without heat.—D.

#### Cotton, Thymolated, Ranke.

2 per cent.

Thymolgr.	210
Resingr.	420
Spermacetiav.oz.	64
Alcoholfl.oz.	<b>46</b>
Absorbent cottonav.oz.	16
5 per cent.	
Thymolgr.	525
Resingr.	1050
Spermacetiav.oz.	71
Alcoholfl.oz.	43
Absorbent cottonav.oz.	16

Effect solution and saturation at an elevated temperature, pressing out, while still warm, to the weight of 48 av. ounces; dry in the open air.—D.

#### Cotton, Zinc Chloride, Bardeleben.

Zinc chloride.....gr. 1050 Distilled water, hot.....fl.oz. 431 Absorbent cotton.....av.oz. 16

Proceed as in making borated cotton.—D. The product is a 10-per-cent medicated cotton.

Decoction of Barley. (Barley Water.)

Pearl bar	ley	 					av. 07.	11
Distilled	water.		•	•		•	.fl.oz.	24

Purified cotton......av.oz. 16 Wash the barley with cold water, and re-Mix the liquids, immerse the cotton thereject the washings; boil the washed barley

9

with the distilled water for 20 minutes in a covered vessel, and strain. The product is about 16 fluidounces.-Brit, Pharm.

## Decoction of Broom.

Broom tops (scoparius).....gr. 350 Distilled water.....fl.oz. 16

Boil in a covered vessel for, 10 minutes, strain and pour water over the strainer until the colature measures 16 fluidounces.-Brit. Pharm.

#### Decoction of Buckthorn, Compound.

Buckthorn bark, cutgr. 7	20
Rhubarbgr. 1	44
Hopsgr. Carduus mariana seedsgr.	36
Distilled watersufficie	nt

Heat the buckthorn with 18 fluidounces of distilled water for 30 minutes, then add the other ingredients, heat again for 10 minutes, strain, and add enough distilled water through the strainer to make the colature measure 16 fluidounces.

It is advisable to macerate the buckthorn with the water for at least 2 hours before heating.-D.

#### **Decoction of Dandelion.**

Dandelion, sliced and bruised...gr. 350 Water, enough to make.....fl.oz. 16

Boil the dandelion with 16 fluidounces of water for 10 minutes, strain and add enough water through the strainer to make the colature measure the required amount.-Brit. Pharm.

#### Decoction of Granatum.

Pomegranate bark, cut.....av.oz 13/ Distilled water.....sufficient

Add 32 fluidounces of water to the bark. boil down to 16 fluidounces, strain and add, if necessary, enough water through the strainer to make the colature measure 16 fluidounces.-Brit. Pharm.

#### Decoction of Guaiac, Compound. (Decoctum Lignorum.)

Guaiac woodgr. 3	60
Sarsaparilla, cutgr. 3	60
Licorice root, cutgr.	72
Sassafras wood, cutgr.	72
Watersufficie	nt

Macerate the sarsaparilla with 20 fluid-

heat for 1 hour, then add the licorice and sassafras, and strain in 15 minutes, adding enough water through the colature to make up 16 fluidounces.-Belg. Pharm.

## Decoction of Pareira.

Pareira root, in No. 20 powder.av.oz. 1 

Boil the drug with 16 fluidounces of water for 15 minutes in a covered vessel, strain and add enough water through the strainer to make up 16 fluidounces.—Brit. Pharm.

## Decoction of Sarsaparilla, Stronger Compound.

(Stronger Zittmann's Decoction.)

Sarsaparilla, cut finegr.	600
Waterfl.oz.	64
Red sulphide of mercurygr.	5
Calomelgr.	24
Alum, powderedgr.	40
Sugar, powderedgr.	40
Anise, bruisedgr.	24
Fennel, bruisedgr.	24
Licorice, cutgr.	72
Senna, cutgr.	120

Macerate the sarsaparilla with the water for 24 hours, and strain; triturate the two mercury salts, alum, and sugar together, tie the mixed powders into a folded piece of muslin, suspend this into the infusion of sarsaparilla previously put into an earthen vessel, and evaporate the liquid down to 32 fluidounces. While yet hot, add the remaining drugs, and when cold, strain without pressure, set the decoction aside to settle, and decant the clear liquid.

The formula given above is the one formerly in vogue. The formula recognized by the German pharmacopæia contains no mercurials whatever; the proportions of the remaining ingredients is somewhat different, although the difference is a very immaterial one, and the water added to the drugs is 34 fluidounces, the colature; after heating for some hours, being made up to 32 fluidounces.

The formula given is an unscientific one, but contains mercury in some form, unless the evaporation has been conducted in metallic vessels, and hence is often preferred on this account.

The second edition of the German pharmacopœia recognized this preparation under the ounces of water for 24 hours, add the guaiac, | title here given, but the present (third) edition calls it simply "compound decoction of sarsaparilla" and does not recognize the weaker decoction at all.

## Decoction of Sarsaparilla, Weaker Compound.

(Weaker Zittmann's Decoction.)

Residue from preceding decoct	ion.	
Sarsaparilla, cut fine	gr.	384
Water	fl.oz.	96
Cardamom, bruised	.gr.	20
Cinnamom, bruised	.gr.	20
Lemon peel, cut	.gr.	20
Licorice root, cut	.gr.	20

Mix the residue above specified with the sarsaparilla, and boil the whole with the water until the whole is reduced to 32 fluidounces, and while still hot, add the remaining drugs; allow to cool, strain, set aside to settle, and decant the clear liquid.

As stated in the preceding article, this preparation is not recognized at all by the present German pharmacopicia, but the second edition did consider it, and gave for it the following formula:

Sarsaparilla, cutgr.	288
Watersuffici	ent
Lemon peel, cutgr.	<b>3</b> 0
Cinnamon, bruisedgr.	
Cardamom, bruisedgr.	80
Licorice root, cutgr.	30

Macerate the sarsaparilla with 30 fluidounces of water for 24 hours, then heat in a covered vessel on a water bath for 3 hours, stirring occasionally; add the other ingredients, macerate for fifteen minutes, strain the liquid with expression, allow the decoction to settle, pour off all the clear liquid, and add enough water to it to make 32 fluidounces.

#### Discs. (Lamellæ.)

These are prepared by adding to a concentrated solution of gelatin some glycerin and a solution of a medicating ingredient. While hot this is poured on a perfectly level and polished surface, and after drying the discs are cut out from the sheet, each disc being 1-25th inch in thickness and weighing about 1-50th grain. The discs of the British pharmacopæia are used only in ophthalmic practice. They are, as follows:

Discs of Atropine, each containing 1-5000th grain of atropine sulphate.

Discs of Cocaine, each containing 1-200th grain of cocaine hydrochlorate.

Discs of Physostigmine, each containing 1-1000th grain of physostigmine.

## Drops, Cholera.

Various preparations commonly known by this title will be found under the "Mixtures."

## Drops, Cordial Warner's.

Sennagr.	72
Coriandergr.	
Fennelgr.	
Cochinealgr.	
Extract of licoricegr.	
Spanish saffrongr.	
Raisinsav. oz.	
Waterfl.oz.	
Alcoholfl.oz.	
Mix, macerate for 7 days, agitatin	g occa

sionally, and filter.-II. modified.

**Drops, Cramp.** (Kramp Tropfen.) The "red," also known as Herzstaerkungs Tropfen and Tinctura Apoplectica rubra, is made after one of the following formulæ:

1. Aromatic tincture
Macerate for several days, and strain
through cotton.—H.
2. Oil of peppermint drops 3 Oil of anisedrops 5 Oil of cinnamondrops 8 Tincture of catechufl.oz. 1 Aromatic tincturefl.oz. 2 Chloroformfl.dr. 1 Spirit of etherfl.oz. 5 Alcoholfl.oz. 71 H.
The "white" is prepared from the following:
Chloroformm. 100
Oil of peppermintdrops 10 Ether fl.oz 4
Ether
Drops, Gold. (Gold Tropfen.—Tinctura
Dulcis.)
Potassium acetategr. 112 Caramelgr. 128 Hydrochloric ether (ethyl chlo- ride)fl.oz. 14 Acetic etherfl.dr. 14 Syrupfl.oz. 14 Alcohol, sufficient to make fl.oz. 16.—H.
Miconol, sumcient to make n.oz. 10.—H. modified.
mourney.

In the absence of the above the aromatic

tincture of the National Formulary may be dispensed.—II.

The ethereal tincture of chloride of iron of the National Formulary is also known as Lamotte's Gold Drops, and this is what may be desired when "gold drops" are requested.

#### Drops, Dysmenorrhœa,

**Rademacher.** (Guttæ ad Menstrua Tormentosa Rademacheri.)

Tincture of nux vomica.

Tincture of castor, equal parts of each by measure.—H.

Drops, Jesuit. (Guttæ Jesuitarum.)

Guaiac resin, powderedav.oz.	3 <del>1</del>
Peru balsamgr.	96
Sassafras bark, cutav.oz.	21
Alcoholfl.oz.	16

Mix, macerate for 7 days, agitating occasionally, and filter.

### Drops, Mother.

Valerianav.oz.	21
Galangagr.	<b>6</b> 0
Red saundersgr.	10
Compound spirit of etherfl.dr.	2
Spirit of cinnamonfl.dr.	1
Diluted alcohol suffici	ent

Reduce the three drugs to fine powder and extract by percolation with diluted alcohol; the percolate obtained should be of such amount that when added to the two spirits the product will measure just 16 fluidounces.

Very frequently simply tincture of valerian is dispensed as "mother drops."

Other "drops" may be found scattered throughout this work (consult index).

#### Eau Sedative de Raspail.

Water of ammoniafl.oz.	2
Spirit of camphorfl.dr.	1%
Chloride of sodiumav.oz.	1
Water, sufficient to make fl.oz.	16

## ELIXIRS.

The presentation of this multifarious array of elixirs perhaps requires an explanation. The catalogues of the large manufacturers list all of the elixirs herein mentioned, and this fact indicates a demand for them. In order, therefore, that retail pharmacists may supply this demand without recourse to the manufacturer or the wholesaler, we have given reliable formulæ for these preparations.

Elixir of Acetanilid. (Elixir of Antifebrin.)

Acetanilid Simple elixir		
D' 1 1	 P L	a

Dissolve by agitation. Each fluidram contains one grain of acetanilid.

#### Elixir, Adjuvant.

Sweet orange peelgr. 12	0
Wild cherrygr. 24	
Licorice root, Russiangr. 48	0
Coriandergr. 6	0
Carawaygr. 6	0
Simple syrupfl.oz.	5
Alcohol.	
Water	t

Reduce the wild cherry to a moderately coarse powder, moisten it with 4 fluidrams of water, and set aside for 12 hours. Reduce the other solids also to a moderately coarse powder, mix this intimately with the wild cherry, and having mixed 1 volume of alcohol with 2 volumes of water, moisten the powder with 4 fluidrams of the mixture, and pack tightly in a percolator. Then gradually pour menstruum on top until 11 fluidounces of percolate are obtained. Mix this with the syrup and filter.—N. F.

#### Elixir of Aletris.

Fluid extract of aletris farinosa.fl.oz. 2 Simple elixir ......fl.oz. 14

Mix, let stand for several days, and filter. Each fluidram represents 7½ grains of aletris farinosa.

### Elixir of Aloin, Strychnine and Belladonna.

Fluid extract of belladonna root..m. 64 Elixir of aloin and strychnine,

enough to make.....fl.oz.16 Each fluidram contains 14 gr. of aloin, and 1-100 gr. of strychnine, and represents 4 gr. of belladona root.

#### Elixir of Aloin and Strychnine.

Aloingr.	32
Strychnine sulphategr.	14
Simple elixirfl.oz	16

Dissolve the alkaloidal salt in the elixir by trituration in a mortar, or agitation in a bottle; add the aloin, agitate until dissolved, and filter if necessary.

Each fluidram contains 1/4 gr. aloin, and 1-100 gr. of strychnine sulphate.

### Elixir of Ammonium Bromide.

Ammonium bromidegr.	640
Citric acidgr.	30
Aromatic elixir enough to make fl.oz.	16

Dissolve the ammonium bromide and the citric acid in about 8 fluidounces of aromatic elixir, by agitation; then add the remainder of the elixir, and filter, if necessary.

Each fluidram contains 5 gr. of ammonium bromide.—N. F.

#### Elixir of Ammonium Chloride.

Ammonium chloride.....gr. 1280 Simple elixir, enough to make fl.oz. 16 Dissolve by agitation, and filter, if neces-

sary.

Each fluidram contains 10 gr. of ammonium chloride.

#### Elixir of Ammonium Chloride and Licorice, Compound.

Ammonium chloride......gr. 640 Compound elixir of licorice,

enough to make.....fl.oz. 16

Dissolve by agitation, and filter, if necessary.

Each fluidram contains 5 gr. of ammonium chloride.

#### Elixir of Ammonium Valerianate.

1. Ammonium valerianategr.	256
Chloroformm.	6
Tincture of vanillafl.dr.	2
Compound tincture of cudbear fl.dr.	2
Water of ammonia,	
Aromatic elixirof each suffic	ient

Dissolve the ammonium valerianate in about 10 fluidrams of aromatic elixir, in a graduated vessel, and add enough water of ammonia, in drops, until a faint excess of it is perceptible in the liquid; then add the chloroform. tincture of vanilla, and compound tincture of cudbear, and finally enough aromatic elixir to make 16 fluidounces. Filter if necessary.

Each fluidram contains 2 gr. of ammonium valerianate.—N. F.

#### 2. Goddard's formula, modified:

Valerianic acid, from the root . fl.du	
Ammonium carbonatesuffic	cient
Distilled waterfl.oz	. 4
Elixir of curacaofl.oz	. 10
Orange flower waterfl.oz	. 4
Mucilage of gum arabic fl.oz	. 1
Tincture of cudbearfl.di	. 2

Add the acid to the water and neutralize well as  $\frac{1}{100}$  gr. of strychnine sulphate.

with ammonium carbonate; mix with the other ingredients, and filter.

## Elixir of Ammonium Valerianate and Chloral Hydrate.

Chloral hydrate.....gr. 640 Elixir of ammonium valerianate, N. F., enough to make....fl.oz. 16

Dissolve by agitation and filter if necessary. Each fluidram contains 5 gr. of chloral hydrate and 2 gr. of ammonium valerianate.

## Elixir of Ammonium Valerianate with Cinchonidine.

N. F., enough to make.....fl.oz. 16

Dissolve by agitation. The elixir of ammonium valerianate employed in making this preparation should be exactly neutral.

Each fluidram contains  $\frac{1}{2}$  gr. of cinchonidine sulphate and 2 gr. of ammonium valerianate.

## Elixir of Ammonium Valerianate, Cinchonidine and Iron Pyrophosphate.

Iron pyrophosphate, soluble....gr. 64 Distilled water, hot.....fl.dr. 4 Elixir of ammonium valerianate with cinchonidine, enough to make.....fl.oz. 16

Dissolve the iron salt in the water and add the elixir of ammonium valerianate with cinchonidine.

Each fluidram contains nearly 2 gr. of ammonium and  $\frac{1}{2}$  gr. of cinchonidine sulphate, as well as  $\frac{1}{2}$  gr. of iron pyrophosphate.

## Elixir of Ammonium Valerianate with Cinchonidine, Iron Pyrophosphate and Strychnine.

Strychnine sulphategr.	11/
Distilled water fl.dr.	3
Elixir of ammonium valeri-	
anate, cinchonidine and iron	
pyrophosphate, enough to	
makefl.oz. 10	6

Dissolve the strychnine sulphate in the water, and add the elixir.

Each fluidram contains nearly 2 gr. of ammonium valerianate,  $\frac{1}{2}$  gr. of cinchonidine sulphate and  $\frac{1}{2}$  gr. of iron pyrophosphate, as well as  $\frac{1}{2}$  gr. of strychnine sulphate.

## Elixir of Ammonium Valerianate with Cinchonidine, Iron Pyrophosphate and Quinine.

Iron pyrophosphate, soluble.....gr. 64 Distilled water, hot.....fl.dr. 4 Elixir of ammonium valerianate, with cinchonidine and quinine, enough to make......fl.oz. 16

Dissolve the iron salt in the water and add the elixir.

Each fluidram contains nearly 2 gr. of ammonium valerianate,  $\frac{1}{2}$  gr. of cinchonidine sulphate, and  $\frac{1}{2}$  gr. of quinine hydrochlorate, as well as  $\frac{1}{2}$  gr. of iron pyrophosphate.

## Elixir of Ammonium Valerianate with Cinchonidine, Iron Pyrophosphate, Quinine and Strychnine.

Dissolve the strychnine salt in the water and add the elixir.

## Elixir of Ammonium Valerianate with Cinchonidine and Quinine.

Quinine hydrochlorategr.	32
Cinchonidine sulphategr.	64
Elixir of ammonium valerianate,	
N. F., enough to makefl.oz.	16

Mix, dissolve by agitation and filter.

Each fluidram contains 2 gr. of ammonium valerianate,  $\frac{1}{2}$  gr. of cinchonidine sulphate and  $\frac{1}{2}$  gr. of quinine hydrochlorate.

## Elixir of Ammonium Valerianate with Cinchonidine, Quinine and Strychnine.

Strychnine sulphate.....gr. 114 Distilled water.....fl.dr. 2 Elixir of ammonium valerianate with cinchonidine and quinine, enough to make....fl.oz. 16

Dissolve the strychnine in the water and add the elixir.

#### Elixir of Ammonium Valerianate with Cinchonidine and Strychnine.

Strychnine sulphate.....gr. 11/4 Distilled water.....fl.dr. 2 Elixir of ammonium valerianate with cinchonidine, enough to make.....fl.oz. 16 Dissolve the strychnine sulphate in the rianate...N. F.

water, add the elixir and filter if necessary.

Each fluidram contains  $\frac{1}{160}$  gr. of strychnine sulphate,  $\frac{1}{2}$  gr. of cinchonidine sulphate and 2 gr. of ammonium valerianate.

## Elixir of Ammonium Valerianate and Iron.

Iron pyrophosphate, soluble..., gr. 128 Distilled water, hot......fl.oz. 1 Elixir of ammonium valerianate, N. F......fl.oz. 15

Dissolve the iron salt in the water and add the elixir.

Each fluidram contains 1 gr. of iron pyrophosphate and 2 gr. of ammonium valerianate.

## Elixir of Ammonium Valerianate with Iron and Quinine.

Quinine hydrochlorate......gr. 32 Iron pyrophosphate, soluble....gr. 64 Distilled water, hot.....fi.dr. 4 Elixir of ammonium valerianate,

N. F., enough to make....fl.oz. 16

Add the quinine salt to 15 fluidounces of elixir, dissolve by agitation, dissolve the iron salt in the water, mix the two solutions, and add the remainder of the water.

Each fluidram contains  $\frac{1}{2}$  gr, of quinine hydrochlorate,  $\frac{1}{2}$  gr. of iron pyrophosphate and 2 gr. of ammonium valerianate.

## Elixir of Ammonium Valerianate with Iron, Quinine and Strychnine.

Strychnine sulphate.........gr. 1<sup>1</sup>/<sub>4</sub> Distilled water......fl.dr. 2 Elixir of ammonium valerianate with iron and quinine, enough to make......fl.oz. 16

Dissolve the strychnine sulphate in the water and add the clixir.

## Elixir of Ammonium Valerianate with Quinine.

Quinine hydrochlorate.....gr. 32 Elixir of ammonium valerianate.fl.oz. 16

Dissolve the quinine hydrochlorate in the elixir by agitation, and, if necessary, by occasionally immersing the bottle containing the ingredients in hot water, until solution has been effected; filter if necessary.

Each fluidram contains 1/4 gr. of quinine hydrochlorate.and 2 gr. of ammonium valerianate.—N. F. Elixir of Ammonium and Morphine Valerianates.

M	lorp	hine	e valeri	anate		gr.	8
E	lixir	of	ammon	nium	valerianate,	-	
		-			ė.		

N. F.....fl.oz. 16

Dissolve by agitation. The elixir of ammonium valerianate used in making the above should not be alkaline.

Each fluidram contains  $\frac{1}{16}$  gr. of morphine valerianate and 2 gr. of ammonium valerianate.

## Elixir of Ammonium, Quinine and Strychnine Valerianates.

Strychnine (alkaloid)gr.	11
Valerianic acid	nt
Quinine valerianategr.	64
Elixir of ammonium valerianate,	
N. F., enough to make,, fl.oz.	16

Dissolve the strychnine in 2 fluidrams of the elixir of ammonium valerianate by the aid of a slight excess of valerianic acid. Triturate the quinine salt with this solution and add the remainder of the elixir of ammonium valerianate, agitate occasionally until dissolved, then filter.

In case the valerianic acid is in such excess that its odor is perceptible, the liquid must be cautiously neutralized by stirring it with a glass rod which is repeatedly moistened with very dilute ammonia water. Any excess of the latter must be avoided, as otherwise alkaloidal strychnine will be precipitated.

Each fluidram contains 10 gr. of strychnine valerianate,  $\frac{1}{2}$  gr. of quinine valerianate and 2 gr. of ammonium valerianate.

#### Elixir of Ammonium Valerianate

with Sumbul. (Elixir of Ammonium Valefianate with Musk Root.)

Fluid extract of sumbul.....fl.oz. 2 Elixir of ammonium valerianate.fl.oz. 14

Mix, let stand for several hours and filter through purified talcum.

Each fluidram contains nearly 2 gr. of ammonium valerianate and represents 71 gr. of sumbul root.

### Elixir of Ammonium Valerianate with Strychnine.

Strychnine sulphate.....gr. 11/4 Elixir of ammonium valerianate..... fl.oz. 16

The elixir of ammonium valerianate must not be alkaline.

Elixir of Anise. (Aniseed Cordial.)

Anetholm.	25
Oil of fenneldrops	4
Spirit of bitter almondfl.dr.	11
Deodorized alcoholfl.oz.	4
Simple syrupfl.oz.	10
Distilled waterfl.oz.	2
Magnesium carbonate, powder.gr.	120

Mix the anethol, oil and spirit with the alcohol, add the syrup and water, and set the mixture aside for 12 hours. Then mix it intimately with the magnesium carbonate, and filter it through a wetted filter, returning the first portions of the filtrate until it runs through clear.-N. F.

#### Elixir of Antipyrin.

Simple elixir.....fl.oz. 16

Dissolve by agitation.

Each fluidram contains 5 gr. of antipyrin.

Elixir of Arbor Vitee. (Elixir of Thuja Occidentalis.)

Fluid extract of arbor vitæ....fl.dr. 101 Simple elixir, enough to make. fl.oz. 16

Mix, allow to stand for several hours and filter.

Each fluidram represents 5 gr. of arbor vitæ.

Elixir of Arsenic. (Elixir of Potassium Arsenite.)

Fowler's solution ..... fl.dr.  $10\frac{1}{2}$ Simple elixir, enough to make fl.oz. 16

Each fluidram contains 5 minims of Fowler's solution, which represents  $\frac{1}{10}$  gr. of arsenious acid.

#### Elixir, Aromatic.

Compound spirit of orange....fl.dr. 61 Simple syrup.....fl.oz. 24 Calcium phosphate, precipitated.av.oz. 1 Alcohol,

Distilled water, of each.....sufficient.

To the spirit add enough alcohol to make 16 fluidounces. To this solution add the syrup in several portions, agitating after each addition, and afterwards add, in the same manner, 24 fluidounces of water. Mix the calcium phosphate intimately with this liquid, and filter through a well-wetted filter, Mix, dissolve by agitation, and filter. returning the first portions until a clear

liquid is obtained. Lastly wash the filter with a mixture of 1 volume of water and 8 of alcohol, until the filtrate measures 64 fluidounces.-U. S. P.

#### Elixir of Arsenic and Iron Chloride.

Refer to "Elixir of Chlorides of Arsenic and Iron."

## Elixir of Arsenic, Iron and Mercury Chlorides.

Refer to Elixir of Chlorides of Arsenic, Iron and Mercury.

#### Elixir of Arsenic, Iron and Quinine.

Refer to Elixir of Iron, Quinine and Arsenic.

## Elixir of Arsenic and Mercury Iodides.

Donovan's solution ..... fl.dr. 101 Simple elixir, enough to make fl.oz. 16

Each fluidram contains  $\frac{1}{30}$  gr. each of red iodide of mercury and iodide of arsenic.

#### Elixir of Arsenic and Quinine.

Solution of arsenious acid....fl.dr. 101 Quinine sulphate.....gr. 128 Simple elixir, enough to make. fl.oz. 16

Dissolve by agitation and filter if necessary.

Each fluidram contains 30 gr. of arsenious acid, and 2 gr. of quinine sulphate.

#### Elixir of Arsenic and Strychnine.

Solution of arsenious acid....fl.dr. 104 Strychnine sulphate.....gr. 14 Simple elixir, enough to make. fl.oz. 16

Dissolve by agitation and filter.

Each fluidram contains 26 gr. of arsenious acid and 110 gr. strychnine sulphate.

#### Elixir of Beef.

Extract of beef.....gr. 256 Distilled water.....fl.oz. 1 Simple elixir, enough to make fl.oz. 16

Dissolve the extract in the water, add the elixir, let stand for several days if possible, and filter.

beef.

The extract of beef suitable for this and similar preparations is that which is prepared by Liebig's method.

## Elixir of Beef, Bismuth, Cinchona and Iron.

Extract of beef.....gr. 256 1 Elixir of bismuth, cinchona and

iron, enough to make.....fl.oz. 16

Dissolve the extract in the water add the elixir, let stand for several days if possible, and filter.

#### Elixir of Beef an Cinchona.

Extract of beef.... gr. 256 Detannated elixir of cinchona, N. F., enough to make....fl.oz. 16

Dissolve the extract in the water, add the

elixir, let stand for several days if possible, and filter.

Each fluidram contains 2 gr. of extract of beef and represents about 11 gr. of cinchona.

#### Elixir of Beef, Cinchona and Iron.

Extract of beef.....gr. 256 Distilled water.....fl.oz. 1 Elixir of cinchona and iron, N. F., enough to make....fl.oz. 16

Dissolve the extract in the water, add the elixir, allow to stand for several days if possible, and filter.

Each fluidram contains 2 gr. of extract of beef and nearly 2 gr. of iron phosphate and represents about 14 gr. of cinchona.

## Elixir of Beef, Cinchona, Iron and Strychnine.

Strychnine sulphate.....gr. 11/4 Distilled water.....fl.oz. Elixir of beef, iron and cinchona, enough to make....fl.oz. 16

Dissolve the alkaloidal salt in the water, add to the elixir, and filter.

#### Elixir of Beef, Coca and Iron.

Iron phosphate, solublegr. Extract of beefgr.	256 256
Distilled water, hotfl.oz.	2
Elixir of coca, N. F., enough to makefl.oz.	16

Dissolve the iron salt and extract each in Each fluidram contains 2 gr. of extract of, one ounce of water, mix with the elixir, allow to stand for several days, and filter.

> Each fluidram contains 2 gr. each of iron phosphate and extract of beef and represents about 7 gr. of coca.

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#### Elixir of Beef and Iron.

Citrate of iron and ammonium ..gr. 128 Distilled water, warm.....fl.oz. 1 Elixir of beef, enough to make fl.oz. 16 Dissolve the iron salt in the water and add

the elixir. Each fluidram contains 1 gr. of iron salt and  $1\frac{3}{4}$  gr. of extract of beef.

#### Elixir of Beef, Iron and Malt.

Extract of beefgr.	256
Extract of malt (thick)av.oz.	
Citrate of iron and ammonium. gr. 2	
Spirit of orangefl.dr.	1
Alcoholfl.oz.	2
Sherry winefl.oz.	9
Water,	
Ferric hydrate, of each suffici	ent

Dissolve the extract of beef in one fluidounce of hot water, and add the alcohol containing the spirit of orange, then the wine with which the malt extract has previously been mixed; shake frequently during 2 or 3 days, filter, and wash the filter with a mixture of alcohol and water in the proportion of 1 of the former to 4 of the latter by measure, so as to obtain a filtrate of 15 fluid ounces. Dissolve the iron salt in 6 fluidrams of water, add to the filtrate, and then add enough water to make 16 fluidounces.

The ferric hydrate may be prepared as described under the heading of elixir of gentian; the amount to be used must be sufficient to detannate the mixture, and if an insufficient amount has been used, more must be added, allowing to stand for several days more. The test to be applied is the usual one—filtering a small amount of liquid and testing the filtrate with solution of iron chloride to note if any discoloration occur.

#### Elixir of Berberine.

Berberine phosphategr.	32
Distilled water, hotfl.oz.	1
Simple elixirfl.oz.	15

Dissolve the berberine in the water and add the elixir.

Each fluidram contains  $\frac{1}{4}$  gr. of berberine phosphate.

#### Elixir of Berberine and Iron.

Iron pyrophosphate. soluble....gr. 128 Distilled water, hot.....fl.oz. 1 Elixir of berberine, enough to make.....fl.oz. 16 Dissolve the iron salt in the water, add the elixir, and filter if necessary.

Each fluidram contains 1 gr. of iron pyrophosphate and nearly  $\cancel{4}$  gr. of berberine phosphate.

## Elixir of Bismuth.

Bismuth and ammonium citrate..gr. 256 Water, hot.....fl.oz. 1 Water of ammonia, Aromatic elixir, of each......sufficient

Dissolve the bismuth and ammonium citrate in the hot water, allow the solution to stand until any undissolved matter has subsided; then decant the clear liquid, and add to the residue just enough water of ammonia to dissolve it. Then mix this with the decanted portion and add enough aromatic elixir to make 16 fluidounces; filter, if necessary.

Each fluidram represents 2 gr. of bismuth and ammonium citrate.—N. F.

II. Bismuth subnitrate.....gr. 180 Nitric acid, C. P....fl.dr. 3 Tartaric acid, Sodium bicarbonate, C. P., Distilled water, of each.....sufficient Simple clixir, enough to make. fl.oz. 16"

Mix 3 fluidrams of nitric acid with an equal measure of distilled water, and to this add the bismuth subnitrate, stirring until solution is effected; add enough distilled water to make 3 fluidounces. Now dissolve 135 grains of tartaric acid in 12 fluidrams of distilled water, and pour this into the bismuth solution, stirring constantly during mixing. To this mixture gradually add 150 grains of sodium bicarbonate, stirring constantly during mixing. Dilute the magma thus obtained with 5 fluidounces of distilled water, and after the lapse of several hours, pour the whole upon a plain filter; allow the liquid to drain, and wash the precipitate with distilled water until the washings pass tasteless.

Now mix 150 grains of sodium bicarbonate with 1 fluidounce of distilled water, and add 135 grains of tartaric acid gradually, with constant stirring. When reaction has ceased, and a clear solution has formed, add the washed precipitate of bismuth tartrate and stir until it is dissolved. Now add enough distilled water to make 3 fluidounces and then the elixir. Allow to stand for 24 hours and filter.

• The 3 fluidounces of solution to which elixir is added is a solution of tartrate of bismuth and sodium, and may be used to advantage, instead of citrate of bismuth and ammonium, in all preparations containing a soluble compound of bismuth.

Each of the elixirs of bismuth contains about 2 gr. of the respective bismuth salt.

#### Elixir of Bismuth and Cinchona.

Citrate of bismuth and ammonium.....gr. 128 Distilled water, hot.....fl.dr. 4 Ammonia water.....sufficient Detannated elixir of cinchona, N. F., enough to make....fl.oz. 16

Mix the bismuth salt with the hot water, allow the solution to stand to permit any undissolved matter to subside; decant the clear liquid and add to the residue just enough ammonia water to dissolve. Mix this solution with the decanted liquid, and if alkaline, neutralize the mixture with dilute solution of citric acid gradually added. To the whole add the elixir of cinchona, let stand 24 hours, and filter if necessary.

Each fluidram contains 1 gr. of bismuth salt and represents 14 gr. of calisaya.

## Elixir of Bismuth, Cinchona, Iron and Pepsin.

Citrate of bismuth and ammo-

Add the bismuth salt to 4 fluidrams of the water, triturate well for a moment, allow to stand until the insoluble portion subsides, decant the clear liquid, carefully add to the residue just sufficient ammonia water to dissolve it, carefully avoiding any excess, and mix this solution with the decanted portion.

Add the pepsin to 5 fluidounces of simple elixir and agitate occasionally until dis-

solved; also dissolve the iron salt in the remainder of the water.

Now mix the three liquids, add the tincture, the spirit, syrup, and the remainder of the elixir, allow to stand for 24 hours, and filter.

Each fluidram represents 1 gr. each of citrate of bismuth and ammonium and of pepsin, nearly 3 gr. of cinchona, and 2 gr. of iron pyrophosphate.

#### Elixir of Bismuth, Cinchona and Iron.

Bismuth and ammonium citrate.gr. 128 Water, hot....fi.dr. 4 Water of ammonia.....sufficient Elixir of cinchona and iron. enough to make.....fl.oz. 16

Dissolve the bismuth and ammonium citrate in the hot water, allow the solution to stand until any undissolved matter has subsided; then decant the clear liquid, and add to the residue enough water of ammonia to dissolve it, carefully avoiding an excess. Then mix the solution with the elixir of cinchona and iron; let the mixture stand 24 hours, if convenient, and filter.

Each fluidram contains 1 gr. of bismuth and ammonium citrate, and nearly 2 gr. of iron phosphate.—N. F.

#### Elixir of Bismuth, Cinchona, Iron, Pepsin and Strychnine.

Strychnine sulphate......gr 1½ Distilled water.....fl.dr. 4 Elixir of bismuth, cinchona, iron and pepsin.....fl.oz. 15‡

Dissolve the strychnine sulphate in the water, add the elixir, and filter.

#### Elixir of Bismuth, Cinchona and Pepsin.

Detannated tincture of cin- chonafl.oz. 24 Citrate of bismuth and ammo-	ł
niumgr. 128	
Pepsin, pure	
Distilled water, hotfl.dr. 4	
Water of ammoniasufficient	
Aromatic spiritfl.oz. 1	
Simple syrupfl.oz. 4	
Simple elixir, enough to make. fl. oz. 16	

Triturate the citrate of bismuth and ammonium with the water, allow to stand until the insoluble matter subsides, to the residue add ammonia water until solution takes

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place, carefully avoiding any excess, and mix the two liquids. Add the pepsin to 7 fluidounces of elixir, agitate occasionally until dissolved; mix this with the preceding liquid, add the tincture, spirit, syrup and remainder of the elixir, allow to stand for 24 hours, and filter.

Each fluidram represents nearly 2 gr. of cinchona and contains 1 gr. each of pepsin, and of citrate of bismuth and ammonium.

#### Elixir of Bismuth, Cinchona, Iron and Strychnine.

Strychnine sulphate......gr. 1¼ Water, hot.....fl.dr. 1¼ Elixir of cinchona, iron and

bismuth, enough to make. .fl.oz. 16

Dissolve the strychnine sulphate in the hot water, add the elixir of cinchona, iron and bismuth, and filter, if necessary.—N. F.

#### Elixir of Bismuth and Gentian.

Citrate of bismuth and ammo-	
nium	128
Distilled water, hotfl.dr.	4
Ammonia watersuffici	ient
Elixir of gentian, N. F., enough	
to makefl.oz.	16

Treat the bismuth salt as described under Elixir of Bismuth and Cinchona, add the elixir of gentian, allow to stand for 24 hours, and filter if necessary.

Each fluidram contains 1 gr. of bismuth salt and represents about 2 gr. of gentian.

#### Elixir of Bismuth, Gentian and Iron.

#### Citrate of bismuth and ammo-

nium	gr.	128
Distilled water, hot		
Ammonia water	suffici	ent
Elixir of gentian and iron pho	os-	
phate, enough to make		16

Treat the bismuth salt as in the preceding elixir, add the elixir of gentian and iron, let stand 24 hours, and filter if necessary.

Each fluidram contains 1 gr. of bismuth salt and nearly 1 gr. of iron phosphate, and represents about  $1\frac{1}{2}$  gr. of gentian.

### Elixir of Bismuth, Gentian, Iron and Strychnine.

Strychnine sulphategr.	11
Distilled waterfl.dr.	4
Elixir of bismuth, gentian and	
iron, enough to makefl.oz.	16

the elixir, let stand a few hours and filter.

Each fluidram contains 1 ds gr. of strychnine sulphate, nearly 1 gr. bismuth salt and nearly 1 gr. of iron phosphate, and represents about  $1\frac{1}{2}$  gr. of gentian.

#### Elixir of Bismuth, Gentian and Strychnine.

Strychnine sulphate.....gr. 14 Distilled water....fl.dr. 4 Elixir of bismuth and gentian, enough to make.....fl.oz. 16

Dissolve the strychnine in the water, add the elixir, let stand a few hours, and filter.

Each fluidram contains red gr. of strychnine sulphate, and nearly 1 gr. of bismuth salt and represents about 14 gr. of gentian.

## Elixir of Bismuth, Golden Seal and Iron.

Glycerite of hydrastis.....fl.oz. 1 Iron pyrophosphate, soluble...gr. 128 Distilled water, hot....fl.dr. 4 Elixir of bismuth, enough to make....fl.oz. 16

Dissolve the iron salt in the water, and the glycerite and elixir, let stand for a day or two, and filter. The elixir must be perfectly neutral.

Each fluidram contains 1 gr. of iron pyrophosphate, and nearly 2 gr. of bismuth salt and represents  $3\frac{1}{3}$  gr. of hydrastis.

#### Elixir of Bismuth and Golden Seal. (Elixir of Bismuth and Hydrastis.)

Glycerite of hydrastis.....fl.oz. 1 Elixir of bismuth.....fl.oz. 15

Mix, let stand for several days if possible, and filter. The elixir of bismuth must be exactly neutral before adding the glycerite.

Each fluidram represents  $3\frac{1}{4}$  gr. of hydrastis and contains nearly 2 gr. of citrate of bismuth and ammonium.

## Elixir Bismuth and Iron.

Iron pyrophosphate, solublegr.	128
Distilled water, hotfl.dr.	4
Elixir of bismuthfl.oz.	8
Simple elixir, enough to make.fl.oz.	16

Dissolve the iron salt in water and add the elixirs.

Each fluidram contains 1 gr. each of iron pyrophosphate and bismuth salt.

#### Elixir of Bismuth, Iron and Pepsin.

40

Citrate of bismuth and ammo-	
niumgr. 12	8
Iron pyrophosphategr. 12	8
Pepsin, puregr. 12	
Distilled water, hotfl.oz.	
Water of ammoniasufficien	t
Simple elixir, enough to make.fl.oz. 1	8

Triturate the bismuth with 4 fluidrams of water, allow the insoluble matter to subside, decant the clear liquid, to the residue add gradually ammonia water until solution occurs, carefully avoiding any excess, and mix this with the decanted portion. Dissolve the iron pyrophosphate in the remainder of the water; also dissolve the pepsin in 12 fluidounces of elixir by frequent agitation. Mix the three liquids, add the remainder of the elixir, and filter.

Each fluidram contains 1 gr. each of iron pyrophosphate, pepsin, and citrate of bismuth and ammonium.

## Elixir of Bismuth, Iron, Pepsin and Quining.

Quinine hydrochlorate......gr. 32 Elixir of bismuth, iron and pepsin.....fl.oz. 16

Mix, dissolve by agitation, and filter, if necessary.

Each fluidram contains 1 gr. each of pepsin, iron pyrophosphate and citrate of bismuth and ammonium and  $\frac{1}{4}$  gr. of quinine hydrochlorate.

#### Elixir of Bismuth, Iron and Strychnine.

Iron pyrophosphate, solublegr.	128
Strychnine sulphategr.	11/4
Distilled waterfl.oz.	1
Elixir of bismuthfl.oz.	8
Simple elixir, enough to make fl.oz.	16

Dissolve the iron salt and strychnine salt separately in 4 fluidrams of the water; add the two elixirs, and filter if necessary. The elixir of bismuth must be perfectly neutral.

Each fluidram contains rb gr. of strychnine sulphate and 1 gr. each of iron pyrophosphate and bismuth salt.

#### Elixir of Bismuth, Nux Vomica and Pepsin.

Tincture of nux vomica....fl.dr. 5½ Elixir of pepsin and bismuth, N. F., enough to make....fl.oz. 16 Each fluidram contains nearly 1 gr. of pepsin and 2 gr. of citrate of bismuth and ammonium and represents about  $\frac{1}{2}$  gr. of nux vomica.

#### Elixir of Bismuth and Pancreatin.

Citrate of bismuth and ammo-

niumgr.	128
Pancreatin, puregr.	
Distilled waterfl.oz.	
Water of ammoniasuffici	ent
Tincture of cudbearfl.dr.	2
Simple elixir, enough to make.fl.oz.	16

Triturate the bismuth salt with the water, allow the insoluble portion to subside, decant the clear liquid, add sufficient ammonia water to dissolve the residue, add this solution and the decanted portion to 12 fluidounces of elixir mixed with the tincture, then add the pancreatin, agitate occasionally until the latter is apparently dissolved, filter in a wellcovered funnel, and add enough elixir through the filter to make the filtrate measure 16 fluidounces.

Each fluidram contains 1 gr. each of pancreatin and citrate of bismuth and ammonium.

## Elixir of Bismuth, Pancreatin and Pepsin.

Refer to "Elixir of Pancreatin" and its combinations.

#### Elixir of Bismuth and Pepsin.

Pepsin, puregr. 128	
Bismuth and ammonium citrategr. 256	
Water of ammoniasufficient	
Glycerinfl.oz. 2	
Alcoholfl.oz. 3	
Simple syrupfl.oz. 4	
Compound elixir of taraxacum.fl.oz. 1	
Purified talcumgr. 120	
Water, enough to makefl.oz 16	

Dissolve the pepsin in 4 fluidounces of water. Dissolve the bismuth and ammonium citrate in 1 fluidounce of warm water, allow the solution to stand until clear, if necessary; then decant the clear liquid, and add to the residue just enough water of ammonia to dissolve it, carefully avoiding an excess. Then mix the two solutions, and add the glycerin, compound elixir of taraxacum and alcohol. Thoroughly incorporate the talcum with the mixture, filter it through a wetted filter, and pass enough water through the

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filter to make the filtrate measure 12 fluid-	Elixir, Bitter. (Elixir Amarum.)
ounces. To this add the syrup. Each fluidram represents 1 gr. of pepsin and 2 gr. of bismuth and ammonium citrate. -N. F.	Extract of wormwoodav. oz. 31 Oleosaccharate of peppermint.av.oz. 13 Aromatic tincture, N. Ffl.oz. 13 Bitter tincture, N. Ffl.oz. 13 Waterfl.oz. 8
Elixir of Bismuth, Pepsin and Quinine.	Triturate the extract and oleosaccharate
	with the water to a smooth condition and add
Quinine hydrochlorategr. 32 Elixir of pepsin and bismuth, N. Ffl.oz. 16	the other ingredients. This preparation should be cloudy and of a dark brown color. —Germ. Pharm.
Mix and dissolve by agitation.	Elixir of Blackberry.
Each fluidram contains ¼ gr. of quinine	Fluid extract of rubusfl.oz. 2
hydrochlorate, of pepsin, and 2 gr. of citrate	Tincture of vanilla
of bismuth and ammonium.	Compound elixir of taraxacum. fl.oz. 4
Elixir of Bismuth, Pepsin and	Simple elixir, enough to make fl. oz. 16
Strychnine.	Each fluidram represents 7½ gr. of black-
Strychnine sulphategr. 1¼ Elixir of pepsin and bismuth.fl.oz. 16	berry root bark. Elixir of Blackberry, Compound.
Dissolve the strychnine sulphate in the	Blackberry root
elixir by agitation.	Galls
Each fluidram represents 180 gr. of strych-	Cinnamon, Saigongr. 480
nine sulphate, 1 gr. of pepsin, and 2 gr. of	Cloves
bismuth and ammonium citrate.—N. F.	Ginger
Elixir of Bismuth, Pepsin and	Blackberry juicefl.oz. 24
Wafer Ash.	Simple syrupfl.oz. 12 Glycerinfl.oz. 12
Fluid extract of wafer ashfl.oz. 2 • Elixir of pepsin and bismuth,	Diluted alcoholsufficient
N. F	Reduce the solids to a moderately coarse
Mix, allow to stand 24 hours, and filter	powder, moisten it with diluted alcohol, and
through purified talcum.	percolate it with this menstruum in the usual manner, until 16 fluidounces of percolate are
Each fluidram represents 71 gr. of wafer	obtained. To this add the blackberry juice,
ash, nearly 1 gr. of pepsin and nearly 2 gr.	syrup and glycerin, and mix thoroughly.
of citrate of bismuth and ammonium.	-N. F.
Elixir of Bismuth and Quinine.	Elixir of Black Haw. (Elixir of Vibur-
Quinine hydrochlorategr. 32	num Prunifolium.)
Elixir of bismuth, enough to makefl.oz. 16	Fluid extract of black hawfl.oz. 2 Compound tincture of carda-
Dissolve the quinine salt in the elixir	momfl.dr 91
(which should be neutral) by agitation and	Aromatic elixir, enough to
filter, if necessary.	makefl.oz. 16
Each fluidram contains 1 gr. of quinine	Mix, allow the mixture to stand a few days, if convenient, and filter.
hydrochlorate and 2 gr. of bismuth salt.	
Elixir of Bismuth and Strychnine.	Elixir of Black Cohosh. (Elixir of Cim-
Strychnine sulphategr. 1½ Distilled waterfl.dr. 4 Elixir of bismuthfl.oz. 151	icifuga.) Fluid extract of black cohoshfl.oz. 4 Alcoholfl.oz. 1
Dissolve the alkaloidal salt in the water	Simple elixirfl.oz. 11
and add to the elixir, which latter should be neutral.	Mix, let stand 24 hours, and filter through purified talcum.

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Each fluidram contains 180 gr. of strych-nine sulphate and nearly 2 gr. of bismuth salt. | fuga.

### (Compound Elixir of Cimicifuga.) Fluid extract of cimicifuga...fl.dr. 91 Fluid extract of wild cherry. fl.dr. 8 Fluid extract of sanguinaria..fl.dr. 314 Fluid extract of licorice....fl.dr. 31/4 Simple elixir.....fl.oz. 13 Mix, allow to stand for 24 hours, and filter through purified talcum. Each fluidram represents about 41/2 gr. of cimicifuga, 4 gr. of wild cherry, and 11/2 gr. each of sanguinaria and licorice. sary. Each fluidram represents about 71 gr. of black haw.-N. F. Elixir of Black Haw, Compound. (Compound Elixir of Viburnum Prunifolium.) Fluid extract of black haw....fl.oz. 2 Fluid extract of hydrastis.....fl.oz. 2 Fluid extract of Jamaica dogwood.....fl.oz. 1 Simple elixir.....fl.oz. 11 Mix, allow to stand for 24 hours, and filter. Each fluidram represents 71 gr. each of black haw and golden seal and 3¼ gr. of Jamaica dogwood. This is listed in manufacturers' catalogues under the names "Sedative Cordial" and "Sedative Elixir." Elixir of Blue Flag. Fluid extract of blue flag.....fl.oz. 4 Alcohol ..... fl.oz. 1 Simple elixir.....fl.oz. 11 Mix, allow to stand for 24 hours, and filter. Each fluidram represents 15 gr. of blue flag. bromide.-N. F. Elixir of Blue Flag and Wahoo. Fluid extract of blue flag....fl.oz. 234 Fluid extract of wahoo.....fl.oz. 234 Alcohol.....fl.oz. Mix, allow to stand for 24 hours and filter through talcum. Each fluidram represents about 10 gr. each of blue flag and wahoo. necessary. Elixir of Three (or Triple) Bromides. bromide.-N. F. Potassium bromide.....gr. 128 Sodium bromide......gr. 128 Elixir of caffeine, enough to make.....fl.oz. 16 Mix, dissolve by agitation, and filter, if

necessary.

Each fluidram contains 8 gr. of each of the bromides of potassium, sodium, and caffeine.

#### Elixir of Six Bromides.

Potassium bromidegr.	
Sodium bromidegr.	
Ammonium bromidegr.	384
Calcium bromidegr.	192
Lithium bromidegr.	64
Iron bromidegr.	64
Compound tincture of cudbear.fl.dr.	- 2
Simple elixir, enough to make.fl.oz.	16

Dissolve by agitation and filter, if necessary

Each fluidram contains 5 gr. each of potassium and sodium bromides, 3 gr. of ammonium bromide, 14 gr. of calcium bromide\_\_\_ and 1 gr. each of lithium and iron bromides.

## Elixir of Bromide of Ammonium.

Refer to Elixir of Ammonium Bromide.

### Elixir of Bromide of Caffeine.

Refer to Elixir of Caffeine.

#### Elixir of Bromide of Calcium.

Refer to Elixir of Calcium Bromide.

## Elixir of Bromide of Lithium.

Refer to Elixir of Lithium Bromide.

#### Elixir of Bromide of Potassium.

Potassium	bromidegr.	1280
Citric acid	gr.	30
Aromatic	elixir, enough to	
make	fl.oz.	16

Dissolve the potassium bromide and citric acid in the elixir, by agitation, and filter.

Each fluidram contains 10 gr. of potassium

## Elixir of Bromide of Sodium.

Sodium bromidegr.	1280
Citric acidgr.	30
Aromatic elixir, enough to	
make	16

Dissolve the sodium bromide and citric acid in the elixir, by agitation, and filter, if

Each fluidram contains 10 gr. of sodium

### Elixir of Bromide of Sodium and Lupulin.

Refer to Elixir of Lupulin and its combinations.

Elixir of Black Cohosh, Compound.

## Elixir of Bromide of Zinc.

Zinc bromidegr.	
Citric acidgr.	3
Simple elixirfl.oz.	10

Dissolve by agitation and filter, if necessary.

Each fluidram contains 1 gr. of zinc bromide.

#### Elixir of Buchu.

Fluid extract of buchufl.oz	. 2
Alcoholfl.oz	. 1
Simple syrupfl.oz	. 1
Magnesium carbonategr	
Aromatic elixir, enough to make fl.oz	

Mix the fluid extract of buchu with the alcohol, then add 12 fluidounces of aromatic elixir, and the syrup; incorporate with it the magnesium carbonate, and filter. Finally, pass enough aromatic elixir through the filter to make 16 fluidounces.

Each fluidram represents about  $7\frac{1}{2}$  gr. of buchu.—N. F.

## Elixir of Buchu, Compound.

Compound fluid extract of bu-

chufl.oz.	4
Alcoholfl.oz.	1
Simple syrupfl.oz.	<u>1</u>
Magnesium carbonategr.	120
Aromatic elixir, enough to make fl.oz.	16

Mix the compound fluid extract of buchu with the alcohol, then add 8 fluidounces of aromatic elixir, and the syrup; incorporate with it the magnesium carbonate, and filter. Finally, pass enough aromatic elixir through the filter to make 16 fluidounces.

Each fluidram represents 15 m. of compound fluid extract of buchu.—N. F.

## Elixir of Buchu and Juniper,

**Compound.** (Rheumatic Elixir.)

Fluid extract of buchufl.dr.	61
Fluid extract of barberry bark fl.dr.	81/4
Fluid extract of juniper berries fl.dr. Sodium salicylategr.	31/ 160
Simple syrupfl.oz.	1
Alcohol fl.oz.	1
Simple elixir enough to make fl. oz.	16

Mix all, let stand for 24 hours, and filter through purified talcum.

Each fluidram contains 1¼ gr. of sodium salicylate, and represents 8 gr. of buchu, and 1½ gr. each of barberry bark and juniper berries.

## Elixir of Buchu, Juniper and Potassium Acetate.

Fluid extract of buchufl.dr.	12
Fluid extract of juniper berries fl.dr.	4
Potassium acetategr.	192
Alcohol fl.oz.	1
Simple syrupfl.oz.	1
Simple elixirfl.oz.	12

Mix, allow to stand for 24 hours and filter through talcum.

Each fluidram contains  $1\frac{1}{2}$  gr. of potassium acctate, and represents about  $5\frac{1}{2}$  gr. of buchu, and 2 gr. of juniper berries.

#### Elixir of Buchu, Juniper, Uva Ursi and Potassium Acetate.

Fluid extract of buchufl.oz.	2
Fluid extract of uva ursifl.dr.	11
Fluid extract of juniper berries fl.dr.	51
Potassium acetateav.oz.	1 <u>i</u>
Alcohol fl.oz.	1
Simple syrupfl.oz.	1
Simple elixir enough to make fl.oz.	16

Mix, allow to stand for 24 hours, and filter through purified talcum.

Each fluidram contains 5 gr. of potassium acetate, and represents  $7\frac{1}{2}$  gr. of buchu, 5 gr. of uva ursi, and  $2\frac{1}{2}$  of juniper berries.

#### Elixir of Buchu and Pareira.

Fluid extract of buchufl.oz.	2
Fluid extract of pareira brava., fl.oz.	2
Alcoholfl.oz.	1
Simple syrupfl.oz.	1
Simple elixir fl.oz.	10

Mix, allow to stand for 24 hours, and filter through purified talcum.

Each fluidram represents  $7\frac{1}{2}$  gr. each of buchu and pareira brava.

#### Elixir of Buchu and Pareira, Compound.

Fluid extract of buchufl.dr.	8
Fluid extract of juniper berries fl.dr.	4
Fluid extract of pareira bravafl.dr.	2
Fluid extract of stone-rootfl.dr.	2
Alcohol fl.oz.	1
Simple syrupfl.oz.	1
Simple elixirfl.oz.	12

Mix, allow to stand for 24 hours, and filter through purified talcum.

Each fluidram represents about 4 gr. of buchu, 2 gr. of juniper berries, and 1 gr. each of pareira brava and collinsonia.

	D FORMULARY.
<ul> <li>Elixir of Buchu and Potassium Acetate.</li> <li>Potassium acetategr. 640 Elixir of buchu, enough to make fl.oz. 16 Dissolve the potassium acetate in about 12 fluidounces of elixir of buchu, filter, if necessary, and add the remainder of the elixir of buchu.</li> <li>Each fluidram represents 5 gr. of potas- sium acetate, and about 7 gr. of buchuN. F.</li> <li>Elixir of Buckthorn. (Elixir of Fran- gula.)</li> <li>Fluid extract of frangulafl.oz. 4 Alcohol</li></ul>	Each fluidram contains 5 gr. of calcium bromide.—N. F. Elixir of Calcium Hypophosphite. Calcium hypophosphitegr. 256 Citric acidgr. 30 Aromatic elixir, enough to make fl.oz. 16 Dissolve the calcium hypophosphite in 14 fluidounces of aromatic elixir, and filter; dis- solve the citric acid in the filtrate, and pass the remainder of the aromatic elixir through the filter. Each fluidram contains 2 gr. of calcium hypophosphite.—N. F. Elixir of Calcium and Sodium Hypo- phosphites and Cherries. Refer to "Elixir of Cherries" for this and its combinations. Elixir of Calcium and Sodium Hypo- phosphites with Cinchona. Refer to "Elixir of Cinchona and Hypo- phosphites." Elixir of Calcium and Sodium Hypo- phosphites with Cinchona.
thorn bark, and 26 gr. of senna. Elixir of Butyl Chloral Hydrate. Refer to "Elixir of Croton Chloral Hy- drate" for above and its combinations. Elixir of Caffeine. Caffeine	Calcium hypophosphitegr. 128 Sodium hypophosphitegr. 128 Adjuvant elixirfloz. 8 Fluid extract of malt, N. Ffloz. 8 Dissolve the salts in the elixir by tritura- tion, filter, and add the malt extract. Each fluidram contains 1 gr. each of the hypophosphites of calcium and sodium. Elixir of Calcium and Sodium Hypo- phosphites with Tar. Calcium hypophosphitegr. 128 Sodium hypophosphitegr. 128 Distilled water, hotfloz. 2 Elixir of tarenough to make floz. 16 Dissolve the salts in the water, add the elixir, and filter. Each fluidram contains 1 gr. each of the hypophosphites. Elixir of Calcium Iodide. I. Calcium iodideav.oz. 14 Simple elixirenough to make fl.oz. 16 Dissolve by agitation, and filter. II. Inasmuch as calcium iodide is an un- stable compound, it should be prepared as

needed, and the following formula should therefore receive preference:

Solution of iron iodide, N. F., prepared without hypophos-		
phorous acid	fl.dr.	$13\frac{1}{2}$
Calcium oxide, C. Pa	v.oz.	2
Distilled water	œ:	
Distined water	sumen	ent
Sugara		
	v.oz.	3 <u>1</u>

Hydrate the calcium oxide with 6 fluidounces of water, add the solution of iron oxide, heat to boiling, allow to stand a few minutes, decant the clear liquid, add to the residue a fresh portion of distilled water, heat again to boiling, decant as before, and repeat the process again until the mixed decantates measure 10 fluidounces; add the alcohol containing the spirit, let stand for an hour or more, filter, in the filtrate dissolve the sugar by agitation, and strain if necessary.

Each fluidram contains 5 gr. of calcium iodide.

Elixir	of	Iodo-	Bron	nide	of	Calciu	ım,
Co	mpo	ound.	(Con	npoun	d E	lixir of (	Cal-
ciu	m B	romide	with	Iodic	les.)		

cluin monnue with foundes.)	
Calcium bromidegr.	256
Sodium iodidegr.	256
Potassium iodidegr.	256
Magnesium chloridegr.	256
Compound fluid extract of sar-	
saparilla fl.oz.	2
Compound fluid extract of stil-	
lingiafl.oz.	2
Aromatic elixirfl.oz.	4
Sugarav.oz.	44
Waterenough to make fl.oz.	16

Dissolve the salts in the water, add the sugar, and to this syrup add the fluid extracts previously mixed with the aromatic elixir; after standing for 2 days, filter and add the remainder of the water.

## Elixir of Calcium Lactophosphate.

Calcium lactategr.	128
	1
Water fl.oz.	1
Simple syrupfl.oz.	1
Aromatic elixir.enough to make fl.oz.	16

Triturate the calcium lactate with the phosphoric acid, water and syrup, until the salt is dissolved, then add the remainder of the aromatic elixir, and filter.

Each fluidram represents 1 gr. of calcium lactate, or about  $1\frac{1}{2}$  gr. of so-called calcium lactophosphate.—N. F.

## Elixir of Calcium Lactophosphate and Cinchona.

Detannated elixir of cinchona...fl.oz. 8 Elixir of calcium lactophosphate fl.oz. 8

## Elixir of Calcium Lactophosphate, Cinchona and Iron.

Calcium lactategr.	64
Phosphoric acid (85 per cent.) fl.dr.	+
Water of ammoniafl.dr.	4
Citric acidgr.	120
Elixir of cinchona and iron.	
enough to makefl.oz.	16

Dissolve the calcium lactate in 7 fluidounces of elixir of cinchona and iron, with the aid of the phosphoric acid; then add the citric acid, and when this is dissolved, the water of ammonia; finally, add the remainder of the elixir of cinchona and iron, and filter.

Each fluidram contains  $\frac{1}{2}$  gr. of calcium lactate (or about  $\frac{3}{4}$  gr. of so-called calcium lactophosphate,) and nearly 2 gr. of iron phosphate.—N. F.

## Elixir of Calcium Phosphate.

Calcium phosphategr.	640
Hydrochloric acid, concentra-	
tedfl.dr.	5
Waterfl.oz.	1
Tincture of cudbearfl.dr.	2
Simple clixir, enough to make fl.oz.	16

Mix the calcium phosphate with the water, add the acid, dissolve, add the clixir, and then the tincture.

Each fluidram contains 5 gr. of calcium phosphate.

#### Elixirs of Calisaya.

Elixir of calisaya, and its various combinations, will be referred to under the head of "Elixir of Cinchona."

## Elixir of Cascara Sagrada.

Fluid extract of cascara sagrada fl.oz. 4 Compound elixir of taraxacum fl.oz. 12

Mix them, allow the mixture to stand a few days, if convenient, and filter.

Each fluidram represents 15 gr. of cascara sagrada.—N. F.

II.	
Tincture of orange peelfl.oz.	14
Alcohol fl.dr.	6
Cinnamon waterfl.oz.	
Simple syrupfl.oz.	434
Fluid extract of cascara sagrada,	
of the Brit. pharmfl.oz.	
-Brit. Forn	ı.

## Elixir of Cascara Sagrada, Compound. Elixir of Celery, Compound. (Lazative Elixir.)

Fluid extract of cascara sagradafl.oz.	
Fluid extract of sennafl.dr.	10
Fluid extract of butternutfl.oz.	1
Compound elixir of taraxacum,	
enough to make fl.oz	16

Mix them, allow to stand a few days, if convenient, and filter .- N. F.

## Elixir of Cascara Sagrada with Sodium Salicylate.

Elixir o	f cascara sagradafl.oz.	5
Sodium	salicylateav.oz.	24
	elixir enough to make fl.oz.	

Mix, dissolve by shaking, and filter if necessary.

Each fluidram represents approximately 2 gr. cascara sagrada, and contains very nearly 1 gr. of sodium salicylate.

#### Elixir, Castillon's.

Cinchona, coarsely powderedgr. 160
Gentian, coarsely powdered gr. 160
Ipecac, coarsely powderedgr. 80
Columbo, coarsely powdered gr. 80
Cinnamon, coarsely powdered gr. 20
Aqueous extract of opiumgr. 20
Diluted alcoholsufficient

Macerate the drugs with 16 fluidounces of diluted alcohol for 7 days, and filter, adding enough menstruum through the filter to make up 16 fluidounces of filtrate.

## Elixir, Cathartic, Compound.

Fluid extract of senna ......fl.oz.

Fluid extract of podophyllum.fl.oz.	1
Fluid extract of leptandrafl.dr.	6
Fluid extract of jalapfl.dr.	6
Rochelle saltav.oz.	214
Sodium bicarbonategr.	120
Compound elixir of taraxacum, fl.oz.	4
Elixir of licorice, enough to	
make	16

Mix the fluid extracts with the compound elixir of taraxacum; in the mixture, dissolve the salts by agitation, and add the elixir of licorice.

The product should not be filtered, and should be shaken up whenever any of it is dispensed.-N. F.

Compound elixir of cascara sagrada, N. F., is also known as "laxative elixir," or "elixir purgans," and may be used as a cathartic elixir instead of the above.

Fluid extract of celery seed fl.oz.	1
Fluid extract of cocafl.oz.	1
Fluid extract of kolafl.oz.	1
Fluid extract of black haw fl.oz.	1
Alcoholfl.oz.	2
Aromatic elixir, enough to make fl.oz.	16

Mix the alcohol with 4 fluidounces of aromatic elixir; to this add the fluid extract of celery in several portions, shaking after each addition, and afterwards the other fluid extracts; finally, add the remainder of the elixir, allow the mixture to stand 24 hours, and filter.-N. F.

### Elixir of Celery and Guarana.

Fluid extract	of	celery seedfl.oz.	2
		guaranafl.oz.	2
Aromatic elix	ir.	fl.oz.	12

Mix, allow to stand for 24 hours, and filter through talcum.

Each fluidram represents 71 gr. each of celery and guarana.

#### Elixir of Cherries. (Elixir Cerasorum.)

Ripe, sour che			
stems			
Alcohol	*****	 fl,oz.	2
Glycerin		 fl.oz.	1
Simple syrup		 sufficien	t.

Crush the cherries and stones to a pulp, add the alcohol and glycerin, macerate for 7 days, press and filter, and to the filtrate add simple syrup enough to make 16 fluidounces.

## Elixir of Cherries with Calcium and Sodium Hypophosphites.

Calcium hypophosphitegr. 1		
Sodium hypophosphite,gr.	128	
Elixir of cherries, enough to		
make	16	

Triturate the two salts to fine powder, add to the elixir, dissolve by agitation, and filter.

Each fluidram contains 1 gr. each of sodium and calcium hypophosphites.

#### Elixir of Chloral Hydrate.

Chloral hydrate, crystal......gr. 640 Simple elixir, enough to make..fl.oz 16

Mix, dissolve by agitation, and filter, if necessary.

Each fluidram contains 5 gr. of chloral hydrate.

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Elizir of Chirata.	Elixir of Chloroform, Compound.
Tincture of chiratafl.oz. 4	(Chloroform Paregoric.)
Simple elixirfl.oz. 12 Each fluidram represents 11 gr. of chirata.	Chloroformfl.oz. 3 Tincture of opiumfl.oz. 3
Elixir of Chloral Hydrate and Ammo-	Spirit of camphorfl.oz. 3 Aromatic spirit of ammoniafl.oz. 3
nium Valerianate.	Alcohol
Refer to "Elixir of Ammonium Valeria-	Oil of cassiam. 40
nate" and its combinations.	Mix the chloroform with the alcohol, then
This of Oblasidan of Assessio and	add the oil, aromatic spirit of ammonia, spirit
Elixir of Chlorides of Arsenic and	of camphor and tincture of opium. Allow
<b>Iron.</b> (Elixir of Two Chlorides.)	the mixture to stand a few hours, and filter
Solution of arsenious acidfl.dr. 10 Tincture of citrochloride of iron fl.dr. 54	in a well-covered funnel.
Simple elixirfl.oz. 14	Each fluidram represents about 1 gr. of
Each fluidram contains $\frac{1}{20}$ gr. of arsenious	opium and 11 minims of chloroformN. F.
acid (as so-called " chloride of arsenic") and	Elixir of Cinchona.
about ¼ gr. of iron chloride.	Tincture of cinchonafl.oz. 21
	Simple syrupfl.oz. 2
Elixir of Chlorides of Arsenic, Iron	Glycerin
and Mercury. (Elixir of Three Chlo-	Mix the liquids, allow to stand as long as
rides.)	convenient, and filter through a wetted filter.
Solution of protochloride of	Each fluidounce represents about 14 gr. of
iron, N. Fm. 48 Mercuric chloridegr. 1	vellow cinchona.—N. F.
Solution of arsenious acidm. 50	The compound elixir of quinine, N. F., is
Compound elixir of quinine,	sometimes dispensed as elixir of cinchona or
N. F., enough to makefl.oz. 16	calisaya.
Mix, dissolve, and filter.	Elixir of Cinchona, Detannated.
Each fluidram contains 1/8 gr. of iron pro- tochloride, 1/1 gr. of mercuric chloride and	I.
the gr. of arsenious acid (as so-called " chlo-	Detannated tincture of cinchona, fl.oz. 21
ride of arsenic'').	Simple syrupfl.oz. 2
Elixir of Four Chlorides. (Four Chlo-	Glycerin fl.oz. 2 Aromatic elixir
rides.)	Mix the liquids, and filter, if necessary.
Mercuric chloridegr. 2	Each fluidounce represents about 14 gr. of
Solution of arsenicfl.dr 5	yellow cinchona.—N. F.
Tincture of ferric chloridefl.oz. 2	II. Compound elixir of quinine is often
Hydrochloric acid, dilutedfl.dr. 11	used as a detannated elixir of calisaya and is
Syrup of gingerfl.oz. 4 Water, enough to makefl.oz. 16	recommended to be used even by some of the
Mix, dissolve and filter, if necessary.	best pharmacists, who see no advantage in
Each fluidram contains about & gr. of	employing a tedious process of detannation,
arsenious acid (as so-called "chloride of	when simple solution will yield practically
arsenic ''), & gr. of mercuric chloride, about	the same results.
1 gr. of ferric chloride, and about 5 minims	IHI.
of diluted hydrochloric acid.	Yellow cinchonagr. 240 Curacoa orange peelgr. 160
Elixir of Chloroform.	Coriander
Chloroformfl.dr 4	Cardamomgr. 15
Alcohol fl.oz. 2	Cinnamongr. 30 Anise
Simple elixir, enough to make. fl.oz. 16	Anisegr. 10 Cacao (Baker's)
Mix the alcohol and chloroform, and add	Purified talcumgr. 120
the elixir.	Alcohol, Waterof each, sufficient
Each fluidram contains very nearly 2 min-	Spirit of orangefl.dr. 1
ims of chloroform.	Sugar

•

Reduce the cinchona, orange peel, spices, and cacao together to a moderately fine powder, extract by slow percolation with a menstruum, consisting of 1 part, by measure, of alcohol, and 3 parts of water, so as to obtain 8 fluidounces of percolate.

Prepare hydrate of iron as directed under "Elixir of Gentian," and detannate the above percolate as there directed, washing the residue, with a mixture similar to the menstruum used, until the liquid measures 12 fluidounces. To the latter add the spirit of orange and the talcum, shake well, filter, washing the filter with the same liquid that was used before until the filtrate measures 12½ fluidounces. To the filtrate add the sugar, and dissolve by agitation; strain, or filter, if this be necessary.

#### IV.

Yellow cinchona, in fine powder.gr. 480 Quicklime.....gr. 360

Slake the lime in the least quantity of water, mix intimately with the bark, moisten with alcohol, pack in a glass percolator, and percolate slowly with alcohol as a menstruum in the usual manner until 8 fluidounces are obtained. The first portions of the percolate must be tested with solution of ferric chloride; so long as this liquid affords a discoloration it must be returned to the percolator.

Prepare flavoring as follows:

Oil of orange peelfl.dr.	2
Oil of carawaytl.dr.	1
Oil of cassiatl.dr.	1
Oil of anisefl.dr.	<u> </u>
Alcoholfl.oz.	1

Triturate one fluidounce of this mixture with 69 gr. of purified talcum, 3 fluidrams of alcohol and 1 fluidounce of water, and filter.

To 12 fluidounces of simple syrup add 5 gr. of citric acid and mix this with the tincture first obtained, subsequently adding  $11\frac{1}{2}$ fluidounces of water. Then to this add the flavoring mixture, mix well, and filter the whole. V.

Yellow cinchona	gr. 480
Saigon cassia	gr. 80
Coriander	gr. 80
Nutmeg	gr. 20
Star anise	gr. 20
Sugar	
Alcohol,	
Water, of eachsu	fficient
Spirit of orangefl.	ir. 2
Purified talcum	
	-

Reduce the cinchona, cassia, coriandernutmeg and anise to a moderately fine powder, and extract by percolation with a mixture of alcohol and water, in the proportion of 1 by measure of the former to 3 of the latter, until 22 fluidounces of percolate are obtained. Now beat the white of 1 egg with a portion of the percolate, add the remainder of the percolate, and set aside for 24 hours, agitating occasionally. Test at the end of the specified period of time with solution of ferric chloride and if discoloration occurs, the white of another egg may be added as before, allowing to stand 24 hours, then filtering. Wash the filter with a liquid similar to the menstruum used until 25 fluidounces of filtrate are obtained. To this add the spirit of orange and purified talcum, filter; to the filtrate add the sugar, dissolve by agitation and strain, or filter, if necessary.

Each fluidram represents about 134 gr. of cinchona.

Elixir of Cinchona, Compound. (Elixir of Cinchona and Coca.)

Fluid extract of cinchonafl.dr.	10
Fluid extract of cocafl.dr.	10
Tincture of cacaofl.oz.	21
Simple elixirfl.oz.	11
Mix, and filter, if necessary,	

Each fluidram represents about  $4\frac{1}{2}$  gr. each of cinchona and coca.

Elixir of Cinchona and Beef.

Elixir of Cinchona, Beef and Iron.

Elixir of Cinchona, Beef, Iron and Strychnine.

Refer for above to Elixir of Beef and its combinations.

- Elixir of Cinchona and Bismuth.
- Elixir of Cinchona, Bismuth and Iron.
- Elixir of Cinchona, Bismuth, Iron and Pepsin.

Elixir of Cinchona, Bismuth, Iron, Pepsin and Strychnine.

Elixir of Cinchona, Bismuth, Iron and Strychnine.

## Elixir of Cinchona, Bismuth and Pepsin.

Refer for above to Elixir of Bismuth and its combinations.

Elixir	of	Cinchona	and	Calcium	Lac-
toj	pho	sphate.			

## Elixir of Cinchona, Calcium Lactophosphate and Iron.

Refer for above Elixir of Calcium Lacto phosphate and its combinations.

#### Elixir of Cinchona and Gentian.

Extract of gentiangr.	70
Tincture of vanillafl.dr.	2
Simple syrupfl.oz.	1
Aromatic spirit fl.dr.	
Elixir of cinchona, enough to makefl.oz.	
Шакс	10

Dissolve the extract in about 8 fluidounces of elixir, add the tincture, spirit and syrup, and the remainder of the elixir of cinchona, and filter the whole.

Each fluidram represents about 2 gr. of gentian and about 11 gr. of cinchona.

#### Elixir of Cinchona, Gentian and Iron Malate.

Malate of iron ("scales ")gr.	128
Extract of gentiangr.	35
Simple syrupfl.oz.	4
Elixir of cinchonafl.oz.	6
Tincture of vanillafl.dr.	2
Oil of cinnamondrop.	1.
Water, hotfl.oz.	1
Aromatic elixir, enough to make fl.oz.	16

Dissolve the iron salt and extract in the water, add the other ingredients and filter.

Each fluidram represents about 1 gr. of gentian and  $\frac{1}{2}$  gr. of cinchona, and contains 1 gr. of iron malate.

The malate of iron to be used should not be the ferrated extract of apples, but the pure malate of iron which appears in the scale form.

#### Elixir of Cinchons and Hypophosphites. . .

....

Calcium hypophosphitegr.	128
Sodium hypophosphitegr.	128
Citric acidgr.	80
Waterfl.oz.	
Elixir of cinchona, enough to	
makefl.oz.	16

Dissolve the hypophosphites and citric acid in the water, add the elixir of cinchona, and filter.

Each fluidram contains 1 gr. each of the hypophosphites of calcium and sodium.-N. F.

4

. .

Elixir of Cinchona and Iron. (Ferrated Elixir of Cinchona.)

Iron phosphate, soluble.....gr. 256 Water, boiling ..... fl.oz. 1 Compound elixir of quinine....fl.oz. 15

Dissolve the iron phosphate in the water, add the compound elixir of quinine, and filter.

Each fluidram contains 2 gr. of iron phosphate.-N. F.

### Elixir of Cinchona and "Protoxide" of Iron.

Solution	of	" pro	otox	ide '	' of		
iron						.fl.oz.	11
Glycerin.						.fl.oz.	- 1 <del>1</del>
Elixir of	cinc	hona.	N.	F		.fl.oz.	13

Mix the solution and the glycerin, and add the elixir.

#### Elixir of Cinchona, Iron and Pepsin.

Pepsin, puregr.	128
Hydrochloric acidfl.dr.	
Water	
Elixir of cinchona and iron,	
enough to makefl.oz.	16

Dissolve the pepsin in the water mixed with the hydrochloric acid, add the elixir of cinchona and iron; let the mixture stand a few days, if convenient, and filter.

Each fluidram represents 1 gr. of pepsin and about 11 gr. of iron phosphate.-N. F.

### Elixir of Cinchona, Iron and Phosphorus.

Spirit of phosphorus.....fl.dr. 74 Elixir of cinchona and iron,

enough to make.....fl.oz. 16

Each fluidram contains 130 gr. of phosphorus, 2 gr. of iron phosphate, and represents nearly 2 gr. of cinchona.

## Elixir of Cinchona, Iron and Strychnine.

Strychnine sulphate.....gr. 14 . . . . . fl.dr. Distilled water..... Elixir of cinchona and iron, enough to make .....fl.oz. 16

Dissolve the strychnine sulphate in the water and add the elixir.

Each fluidram contains 180 gr. of strychnine sulphate, and about 2 gr. of iron phosphate.-N. F. 

Enxir of Unchona and Pepsin.	Elixir or Cinchon
Ι.	Cinchonidine sulpl
Quinine sulphategr. 16	Simple elixir
Cinchonine sulphategr. 8	Dissolve by agita
Elixir of pepsinfl.oz. 16	sary.
Dissolve the alkaloidal salts in the elixir	Each fluidram con
and filter if necessary.	dine sulphate.
II.	Elixir of Cincho
Pure pepsingr. 128	nium Valeria
Hydrochloric acidfl.dr. $\frac{1}{2}$ Detannated elixir of cinchona,	Elixir of Cincho
enough to makefl.oz. 16	Valerianate a
0	phate.
Dissolve by agitation and filter, using puri-	Elixir of Cincho
fied talcum, if necessary.	Valerianate,
Elixir of Cinchona, Pepsin and	and Quinine.
Strychnine.	Elixir of Cincho
Quinine sulphategr. 16	Valerianate,
Cinchonine sulphategr. 8	and Strychni
Strychnine sulphate	Elixir of Cincho
Elixir of pepsin, enough to make fl.oz. 16	Valerianate a
Dissolve the alkaloidal salts in the elixir,	
and filter, if necessary.	Elixir of Cincho
Each fluidram represents small quantities	Valerianate,
of cinchona alkaloids, ide gr. of strychnine	nine.
sulphate, and 1 gr. of pepsinN. F.	Elixir of Cincho
Elixir of Cinchona with Phosphates.	Valerianate s
I.	Refer for above t
Syrup of calcium lactophos-	Valerianate and its c
phate, U. S. P fl oz. 4	Elixir of Cinchon
Syrup of iron lactophosphatefl.oz. 2	Iron pyrophospha
Diluted phosphoric acidfl.oz. 1 Quinine sulphategr. 32	Cinchonidine sulpl
Alcoholfl.oz. 4	Distilled water, he
Spirit of orangefl.dr. 4	Simple elixir
$\hat{W}$ aterfl.oz. $4\frac{1}{2}$	Dissolve the iron
Dissolve the quinine salt in the alcohol pre-	water, and the cinche
viously mixed with the acid and spirit, pour	the two solutions and

Each fluidram contains 1 gr. of cinchonidine sulphate and 2 gr. of iron pyrophosphate.

## Elixir of Cinchonidine, Iron and Strychnine.

Make this either by adding 11/4 gr. of strychnine sulphate to the preceding, or the elixir of iron phosphate, cinchonidine and strychnine may be employed.

#### Elixir of Coca.

Fluid extract of coca,	fl.oz.	2
Alcohol.		1
Simple syrup	fl.oz.	2
Tincture of vanilla		
Purified talcum	gr.	120
Aromatic elixir, enough to ma	ike.fl.oz.	16

Mix the fluid extract with the alcohol, syrup and 10 fluidounces of aromatic elixir,

lixir	of	Cinchona	and	Pepsin.
-------	----	----------	-----	---------

viously mixed with the acid and spirit, pour this solution into the syrups previously mixed with the water, allow to stand for 2 days, and filter.

II

Elixir of cinchona.....fl.oz. 8 Compound syrup of phosphate. fl.oz. 8

III. The Elixir of Cinchona, Iron and Calcium Lactophosphate, N. F., may be dispensed under the above title.

## Elixir of Cinchona and Strychnine.

Strychnine sulphate.....gr. 11/4 Detannated elixir of cinchona. fl.oz. 16 Dissolve by agitation.

Each fluidram contains res gr. of strychnine sulphate, and represents nearly 2 gr. of cinchona.

## Elixir of Cinchonidine.

Cinchonidine	sulphate	gr.	128

.....fl.oz. 16

ation, and filter, if neces-

ntains 1 gr. of cinchoni-

- onidine and Ammonate.
- onidine, Ammonium and Iron Pyrophos-
- onidine, Ammonium Iron Pyrophosphate
- onidine, Ammonium Iron Pyrophosphate ine.
- onidiné, Ammonium and Quinine.
- onidine, Ammonium Quinine and Strych-

## onidine, Ammonium and Strychnine.

to Elixir of Ammonium combinations.

## nidine and Iron.

Iron pyrophosphate, solublegr. Cinchonidine sulphategr.	
Distilled water, hotfl.dr.	
Simple elixirfl.oz.	15

n pyrophosphate in the onidine in the elixir; mix id filter if necessary.

# 12

50

#### PHARMACEUTICAL PREPARATIONS.

iodide, and small quantities of the several fluid extracts. Elixir of Codeine and Terpin Hydrate. Terpin hydrate.....gr. 256 of the elixir through the filter. Simple elixir, enough to make fl.oz. 16 Each fluidram represents 71 gr. of coca .-Dissolve by agitation and filter if necessary. Elixir of Coca, Beef and Iron. Each fluidram contains 1/8 gr. of codeine sulphate, and 2 gr. of terpin hydrate. Refer for above to Elixir of Beef and its Elixir of Crampbark, Compound. (Com-E ixir of Coca and Cinchona. pound Elixir of Viburnum Opulus.) Fluid extract of crampbark....fl.dr. 10 Fluid extract of trillium.....fl.oz. 21 Fluid extract of aletris......fl.dr. 10 Refer to Compound Elixir of Cinchona. Elixir of Coca and Guarana. (Compound Elixir of Coca.) Compound elixir of taraxacum. .fl.oz. 11 Fluid extract of coca.....,fl.oz. Mix, allow to stand a few days, if con-Fluid extract of guarana.....fl.oz. venient, and filter.-N. F. Elixir of Croton Chloral Hydrate. (Elixir of Butyl Chloral Hydrate.) Mix the liquids, and thoroughly incorpo-Each fluidram represents 71 gr. each of Dissolve the croton chloral in the alcohol, coca and guarana.-N. F. Elixir of Coca and Phosphorus. necessary. Spirit of phosphorus.....fl.dr. 15 Each fluidram contains 2 gr. of croton Elixir of coca, enough to make. fl.oz. 16 chloral hydrate. Mix and filter if necessary. Elixir of Croton Chloral Hydrate and Each fluidram contains rds gr. of phos-Quinine. Quinine sulphate......gr. 128 Elixir of croton chloral hydrate.fl.oz. 16 Elixir of Codeine. Codeine sulphate, ......gr. 16

add the elixir, dissolve by agitation, and filter, if necessary.

sulphate and 2 gr. of croton chloral hydrate.

## Elixir of Curacao. (Curacao Cordial.)

Spirit of curacaofl.dr.	2
Orris root, fine powdergr.	30.
Deodorized alcoholfl.oz.	4
Citric acidgr.	50
Simple syrupfl.oz.	8
Magnesium carbonategr.	
Distilled water, enough to make fl.oz.	16

Mix the spirit of curacao with the alcohol, add the orris root, magnesium carbonate, and 3 fluidounces of water. Allow the mixture to stand 12 hours, occasionally agitating; Each fluidram contains 3 gr. of potassium then pour it on a wetted filter, returning the

add the purified talcum and incorporate the latter thoroughly. Let the mixture stand during 48 hours, if convenient, shaking occasionally; then filter, add the tincture of vanilla to the filtrate, and pass the remainder

N. F.

combinations.

rate the purified talcum with the mixture; let it stand during 48 hours, if convenient, occasionally agitating, then filter.

phorus and represents 6} gr. of coca.

Dissolve by agitation.

Each fluidram contains 1/8 gr. of codeine sulphate.

## Elixir of Corydalis, Compound. (Alterative Elixir.)

Fluid extract of corydalisfl.oz.	1
Fluid extract of stillingiafl.oz.	1
Fluid extract of prickly ash bark fl.dr.	4
Fluid extract of blue flag fl.oz.	14
Alcoholfl.oz.	2
Potassium iodidegr.	384
Aromatic elixir, enough to make fl. oz.	16
*** .* * * * * * * * * *	

Mix the alcohol with the fluid extracts, dissolve the potassium iodide in the mixture, and add the aromatic elixir. Let the mixture stand a few days, if convenient, and filter.

Croton chloral hydrategr.	256
Alcoholfl.oz.	1
Tincture of cacao fl.oz.	2
Simple elixir, enough to make.fl.oz.	16

add the tincture and elixir, and filter, if

Reduce the quinine salt to fine powder.

Each fluidram contains 1 gr. of quinine

Spirit of curacaofl.dr.	2
Orris root, fine powdergr.	30.
Deodorized alcoholfl.oz.	4
Citric acidgr.	50
Simple syrupfl.oz.	8
Magnesium carbonategr.	120
Distilled water, enough to make fl.oz.	16

first portions of the filtrate until it runs through clear, and pass enough water through the filter to make the filtrate measure 8 fluidounces. In this dissolve the citric acid, and finally add the syrup .- N. F.

Elixir of Damiana. (Elixir of Tu	rnera.)
Fluid extract of damianafl.oz.	24
Magnesium carbonategr.	
Alcoholfl.oz.	4
Glycerinfl.oz.	1
Aromatic elixir, enough to make fl.oz.	16

Mix the fluid extract with the alcohol, glycerin and 8 fluidounces of aromatic elixir. Incorporate the magnesium carbonate thoroughly with the mixture by trituration, then filter through a wetted filter, and pass the remainder of the aromatic elixir through the filter.

Each fluidram represents nearly 10 gr. of damiana.-N. F.

## Elixir of Damiana, Iron, Nux Vomica and Phosphorus.

Fluid extract of damianafl.oz.	2
Tincture of nux vomicafl.dr.	101
Iron pyrophosphate, soluble,gr.	128
Elixir of phosphorusfl.oz.	
Alcoholfl.oz.	
Distilled water, hotfl.dr.	4
Simple elixir, enough to make.fl.oz.	16

Mix the fluid extract, tincture, elixir of phosphorus, alcohol, and 6 fluidounces of simple elixir, also dissolve the iron salt in the water, mix the two liquids, add the remainder of the simple elixir, and filter, if necessary, in a well-covered funnel.

Each fluidram represents 71 gr. of damiana and about 1 gr. of nux vomica, and contains and gr. of phosphorus and 1 gr. of iron pyrophosphate.

## Elixir of Damiana, Iron and Phosphorus.

Fluid extract of damianafl.oz.	2
Elixir of phosphorusfl.oz.	4
Iron pyrophosphate, solublegr.	128
Alcoholfl.oz.	1
Distilled water, hotfl.dr.	
Simple elixir, enough to make.fl.oz.	16

Mix the fluid extract, elixir of phosphorus, alcohol, and 8 fluidounces of simple clixir, dissolve the iron pyrophosphate in the water, mix the two liquids, add the remainder of the elixir, and filter. if necessary, in a well-covered funnel.

phorus and 1 gr. of iron pyrophosphate and represents 7± gr. of damiana.

#### Elixir of Damiana, Nux Vomica and Phosphorus.

Fluid extract of damianafl.oz.	2
Tincture of nux vomicafl.dr.	101
Elixir of phosphorusfl.oz.	
Alcoholfl.oz.	
Simple elixir, enough to makefl.oz.	16

Mix the above ingredients in the order given and filter, if necessary, in a well-covered funnel.

Each fluidram represents ale gr. of phosphorus, about 1 gr. of nux vomica, and 71 gr. of damiana.

## Elixir of Damiana and Phosphorus.

Elixir of phosphorusfl.oz. 8	
Fluid extract of damianafl.oz. 2	
Alcoholfl.oz. 2	
Simple elixirfl.oz. 4	

Mix the elixir of phosphorus, alcohol, and fluid extract and add the simple elixir.

Each fluidram represents 103 gr. of phosphorus and 7+ gr. of damiana.

#### Elixir of Damiana, Phosphorus and Strychnine.

Elixir of phosphorusfl.oz.	8
Fluid extract of damianafl.oz.	2
Alcoholfl.oz.	
Strychnine sulphategr.	11
Simple elixirfl.oz.	4

Mix the elixir of phosphorus, alcohol, and fluid extract and add the simple elixir, having first dissolved the alkaloidal salt in the latter.

Each fluidram represents 74 gr. of damiana and contains ide gr. each of phosphorus and strychnine sulphate.

Elixir of Dewberry Root, Compound.

Dewberry root, in coarse pow-

derav.oz.	21
Galls, powdered	120
Kino, powderedgr.	120
Cinnamon, powderedgr.	60
Cloves, powderedgr.	30
Capsicum, powderedgr.	5
Tincture of opiumfl.dr.	4
Spirit of peppermintm.	45
Brandyfl.oz.	16
Sugarav.oz.	74

Macerate all of the above, sugar excepted, for 14 days, shaking occasionally; express, Each fluidram contains 200 gr. of phos- filter, and in the filtrate dissolve the sugar.

#### Elixir of Dandelion.

Fluid extract of dandelion....fl.oz. 6 Simple elixir, enough to make..fl.oz. 16

Each fluidram represents 22<sup>1</sup>/<sub>2</sub> gr. of dandelion.

## Lixir of Dandelion, Compound. (Com-

pound Elixir of Taraxacum.)

Fluid extract of dandelion....fl.dr. 4 Fluid extract of sweet orange peel fl.dr. 31 Fluid extract of wild cherry...fl.dr. 32 Fluid extract of licorice root..fl.oz. 1 Tincture of cinnamon.....fl.dr. 4 Compound tincture of cardamom fl.dr. 4 Aromatic elixir, enough to make.fl.oz. 16

Mix, let stand a few days, and filter.—N.  $\blacksquare$ . (last edition).

#### I L

1.

Dandeliongr.	320
Wild cherrygr.	
Sweet orange peel, recently dried.gr.	
Licorice, Russian, peeledav.oz.	- 21
Cinnamon, Saigongr.	80
Cardamomgr.	80
Canada snake rootgr.	80
Caraway	80
Clovesgr.	27
Simple syrupfl.oz.	21
Alcohol,	
Water, of eachsuffici	ient.

Mix the drugs, reduce them to a moderately coarse powder, and extract by percolation with a mixture of 1 volume of alcohol and 2 of water, so as to obtain 11 fluidounces of percolate; to this add the syrup; let stand a few days, if possible, and filter.—N. F. (1st edition).

III. A formula for a preparation of the same name, which is also much in use and which is much different in some respects from either of the preceding, 's the following:

Fluid extract of dandelion....fl.dr. 5 Fluid extract of wild cherry....fl.dr. 3 Fluid extract of gentian.....fl.dr. 1 Fluid extract of licorice root...fl.dr. 1 Simple elixir, enough to make..fl.oz. 16 Mix and filter.

#### Elixir, Digestive, Compound.

See Compound Elixir of Pepsin.

#### Elixir, Emmenagogue.

Rue	96
Spanish saffrongr.	
Savin	96
Socotrine aloesgr.	
Adjuvant elixir, enough to make fl. oz.	16
Reduce the drugs to moderately fine	pow-

der, mix with 12 fluidounces of adjuvant elixir, macerate for 7 days, agitating occasionally, filter, and through the filter add the remainder of the elixir.

Each fluidram represents  $\frac{3}{4}$  gr. each of rue, saffron and savin, and  $1\frac{1}{4}$  gr. of aloes.

#### Elixir of Eucalyptus.

Fluid extract of eucalyptusfl.oz.	2
Alcoholfl.oz.	2
Magnesium carbonategr.	120
Syrup of coffeefl.oz.	6
Compound elixir of taraxacum.fl.oz.	

Mix the fluid extract with the alcohol, then add the other ingredients, shake the mixture occasionally during 48 hours, and filter.

Each fluidram represents 7½ gr. of eucalyptus.—N. F.

This preparation is also the same as what is generally sold or dispensed as aromatic or compound elixir of eucalyptus.

#### Elixir Flavoring No. 29.

Oil of sweet orange peel	fl.oz.	3 <del>1</del>
Oil of caraway seed	m.	100
Oil of coriander seed	m.	100
Oil of cassia		
Oil of anise (or oil of nutmeg).	<b>m</b> .	50
Alcohol.	fl.oz.	12

The oils used must be perfectly fresh. One fluidounce of this flavor is used for 1 gallon of elixir.

#### Elixir of Galls, Aromatic.

Galls	.av.oz. 1
Nutmegs	.av. oz. 🛔
Cinnamon	.av.oz.
Brandy	sufficient.
Elixir of orange	fl.oz. 10

Reduce the drugs to moderately coarse powder, moisten with brandy, pack in a percolate and percolate until 6 fluidounces of liquid are obtained, to which add the elixir.

#### Elixir de Garus. (Elixir Gari.)

Cinnamongr.	30
	30
Clovesgr.	30
	30
Myrrhgr. 1	10
Aloes	20
Spanish saffrongr.	8
Orange flower waterfl.oz.	1
Waterfl.oz.	- 8
Simple syrupfl.oz.	16
Alcoholfl.oz.	16
Reduce the drugs, except the saffron,	to

-

moderately coarse powder, macerate for 24 hours in a small still with 8 fluidounces of alcohol and the water, then distil off 8 fluidounces; to this distillate add the saffron, the remainder of the alcohol and the orange flower water, macerate for 2 days, agitating occasionally; add the syrup, and filter.

1.		
Oil of cassia	drops	8
Oil of cloves	drops	8
Oil of mace	drops	8
Saffron.	gr.	20
Tincture of vanilla	.fl.dr	Ŧ
Alcohol	fl.oz.	5
Orange flower water		
Sugar	av.oz.	7

Mix the oil, saffron, tincture and alcohol, macerate for 2 days, agitating occasionally; strain to remove the saffron, add the orange flower water and sugar, agitate until the latter is dissolved, and filter.—II. modified.

#### Elixir of Gentian.

I	
Fluid extract of gentianfl.dr.	
Compound spirit of cardamomfl.dr.	4
Solution of tersulphate of ironfl.dr.	4
Water of ammoniafl.dr.	4
Alcohol,	-
Distilled water,	

Aromatic elixir, of each.....sufficient.

Dilute the solution of tersulphate of iron with 4 fluidounces of cold water, and add it, constantly stirring, to the water of ammonia, previously diluted with an equal volume of cold water. Collect the precipitate on a wellwetted muslin-strainer, allow it to drain completely, return it to the vessel, mix it intimately with 4 fluidounces of water, and again drain. Repeat this operation once more with the same quantity of water. When the precipitate has been completely drained for the third time, fold the strainer, and press it gently so as to remove the water as completely as possible without loss of magma; then remove the magma into a tared bottle, and ascertain its weight. Now add to the magma one fifth of its weight of alcohol, the fluid extract, compound tincture and 12 fluidounces of aromatic elixir, and shake the mixture occasionally during 24 hours. Filter through paper, and pass enough aromatic elixir through the filter to make the product measure 16 fluidounces.

Each fluidram represents about 2 gr. of gentian.—N. F. (last edition).

II.

Extract of gentian	gr.	70
Aromatic spirit	.fl.dr.	5
Tincture of vanilla	.fl.dr.	2
Simple syrup	.fl.oz.	1
Simple syrup Aromatic elixir, enough to make	. fl. oz.	16

Dissolve the extract in about 2 fluidounc of aromatic elixir, add the syrup, spirit, tin ture and remainder of the elixir. Filter, necessary. This is of about the same strengt as the preceding.—N. F. (1st edition).

III. This preparation is also made accoring to one of the formulas for compounelixir of gentian which follow.

#### Elixir of Gentian, Compound.

T		

Stronger compound infusion of gentian, N. F.....fl.oz. 44 Aromatic elixir.....fl.oz. 1134 II.

Gentian	gr. 256
Coriander	gr. 64
Bitter orange peel	gr. 64
Alcohol,	•
Water, of each	sufficient
Sugar	.av.oz. 5
Aromatic spirit	.fl.oz. 1
Egg albumen	gr. 120
Citric acid	gr. 5

Mix alcohol and water in the proportion of 1 of the former to 2 of the latter by measure, and with this mixture percolate the drugs, previously ground to moderately fine powder, until 12 fluidounces of percolate are obtained. To this percolate add the albumen and citric acid, agitate until the latter is dissolved, add the aromatic spirit and filter. In the absence of dried egg albumen, the white of 1 egg may be employed.

#### III.

Compound tincture of gentian. fl.oz. 514 Simple elixir.....fl.oz. 1034 Each fluidram represents 2 gr. of gentian.

Elixir of Gentian and Bismuth.

Elixir of Gentian, Bismuth and Iron.

Elixir of Gentian, Bismuth, Iron and Strychnine.

## Elixir of Gentian, Bismuth and Strychnine.

Refer for above under Elixir of Bismuth and its combinations.

## Elixir of Gentian and Cinchona. Elixir of Gentian, Cinchona and Iron Malate.

Refer for above under Elixir of Cinchona and its combinations.

Elixir of Gentian with Iron Chloride Tincture.

T inclure of citro-chloride of iron fl.dr. 1234 Elixir of gentian, enough to

make.....fl.oz. 16 Mix and filter, if necessary.

Each fluidram represents about 34 gr. of ferric chloride, and nearly 2 gr. of gentian.-N. F.

#### Elixir of Gentian and Iron Phosphate. (Ferrated Elixir of Gentian.)

Iron phosphate, soluble.....gr. 128 Distilled water, hot ......fl.dr. Elixir of gentian, enough to make.....fl.oz. 16

Dissolve the iron phosphate in the water, add the elixir of gentian, and filter, if necessarv.

Each fluidram represents 1 gr. of iron phosphate and nearly 2 gr. of gentian.-N. F.

## Elixir of Gentian and Iron Pyrophosphate.

I ron pyrophosphate, solublegr. 1	28
Distilled water, hot	4
Elixir of gentian, enough to	
makefl.oz.	16
Dissolve the iron salt in the water, add	i the

elixir, and filter, if necessary.

Each fluidram contains 1 gr. of iron salt and represents nearly 2 gr. of gentian.

## Elixir of Gentian, Iron Phosphate, Nux Vomica and Quassia.

Tincture of nux vomicam.	256
I ron phosphategr.	128
Distilled water, hotfl.dr.	4
Fluid extract of quassiafl.dr.	4
Compound fluid extract of gen-	
tianfl.dr.	4
Simple elixir enough to make fl.oz.	16
Discolute the iron phosphate in the	

Dissolve the iron phosphate in the water, add the other ingredients and filter.

Each fluidram contains 1 gr. of iron phosphate, and represents # gr. of nux vomica, marly 2 gr. of quassia, and 11 gr. of gentian.

#### Rixir of Golden Seal and Bismuth. Elixir of Golden Seal, Bismuth and Iron.

its combinations.

#### Elixir of Gentian and Phosphorus.

Fluid extract of gentian.....fl.dr. 10 Elixir of phosphorus.....fl.oz. 8 Compound elixir of taraxacum. fl.oz. 5 Aromatic elixir, enough to make fl.oz. 16

Each fluidram represents 130 gr. of phosphorus and 5 gr. of gentian.

Elixir of Golden Seal. (Elixir of Hydrastis.)

Glycerite of hydrastis.....fl.dr. 101 Simple elixir, enough to make. fl.oz. 16

Each fluidram represents 5 gr. of golden seal.

#### Elixir of Grindelia.

Fluid extract of grindelia.....fl.oz. 1 Compound spirit of orange....fl.dr. 1 Alcohol ......fl.dr. 1434 Compound elixir of taraxacum. fl.oz. 13

Mix them, allow the mixture to stand a few days, if convenient, then filter.

Each fluidounce represents 30 gr. of grindelia.-N. F.

#### Elixir of Guaiac.

Tincture of guaiacfl.o	z. 4
Potassium carbonateg	r. 20
Waterfl.d	r. 2
Glycerinfl.o.	z. 4
Compound elixir of taraxacum. fl.o	
Simple syrupfl.o	z. 4

Dissolve the potassium carbonate in the water, add to the tincture of guaiac and to this mixture add the remaining ingredients in the order given above.

#### Elixir of Guarana.

Ι.

Fluid extract of guarana.....fl.oz. 31 Aromatic elixir.....fl.oz. 31 Compound elixir of taraxacum...fl.oz. 94

Mix them; allow the mixture to stand during 48 hours, if convenient, and filter.

Each fluidram represents about 12 gr. of guarana.-N. F.

II.

Guarana, powderedav.oz.	31
Light magnesiagr.	175
Oil of cinnamondrops.	5
Simple syrup fl.dr.	13
Diluted alcoholsuffic	ient
Sand, clean and coarseav.oz.	6 <del>1</del>

Mix the guarana and magnesia, moisten Refer for above to Elixir of Bismuth and with 21 fluidounces of diluted alcohol, set aside for 24 hours, then mix with the sand,

pack in a percolator, percolate until 13 fluid- Elixir of Hypophosphites. ounces of liquid are obtained, then remove the mass from the percolator, inclose it in a cloth and express in a tincture press; to the percolate add the oil and syrup, and make up to 16 fluidounces by addition of the expressed liquid, previously concentrating the latter, if necessary, by evaporation .- H. modified and Brit. Form.

Each fluidram represents about 11 gr. of guarana.

Elixir of Guarana, Compound. (Elixir

of Guarana and Celery.)

Refer to Elixir of Celery and Guarana.

## Elixir of Guarana and Coca.

Refer to Elixir of Coca and Guarana.

## Elixir of Helonias.

Fluid extract of helonias.....fl.oz. 4 Simple elixir.....fl.oz. 12

Mix, allow to stand for 24 hours and filter. Each fluidram represents 15 gr. of helonias.

#### Elixir of Helonias, Compound. (Com-

pound Elixir of Squaw-vine. -- Compound Elixir of Mitchella.)

Fluid extract of false unicorn	
(helonias dioica)fl.oz.	2
Fluid extract of mitchellafl.oz.	4
Fluid extract of blue cohoshfl.oz.	2
Fluid extract of crampbarkfl.oz.	2
Purified talcumav.oz.	-1
Aromatic elixir, enough to make fl.oz.	16
Mix and filter.	

Each fluidram represents nearly 14 gr. of mitchella, and 7 gr. each of helonias, blue cohosh and crampbark.

### Elixir of Hops.

Fluid extract of hopsfl.oz.	2
Magnesium carbonategr.	120
Tincture of vanillafl.dr.	4
Compound elixir of taraxacum.fl.oz.	2
Aromatic elixir, enough to	
makefl.oz.	16

Triturate the fluid extract with the magneium carbonate, then gradually add the comound elixir of taraxacum, tincture of vanilla, d the aromatic elixir. Allow the mixture stand several days, if convenient, occanally agitating and then filter.

Lach fluidram represents 74 gr. of hops.-F.

Calcium hypophosphitegr.	38
Sodium hypophosphitegr.	
Potassium hypophosphitegr.	125
Citric acidgr.	30
Waterfl.oz.	-4
Glycerinfl.dr.	- 4
Compound spirit of cardamom, fl.dr.	- 4
Aromatic elixir, enough to	
makefl.oz.	16

Dissolve the hypophosphites and the cit:ic acid in the water; then add the glyceria, compound spirit and the aromatic elixir. Filter, if necessary.

Each fluidram contains 3 gr. of calcium hypophosphite and 1 gr. each of sodium and potassium hypophosphite.-N. F.

Elixir of Hypophosphites, Compound. The elixir of hypophosphites with iron is sold and dispensed under this name.

Elixir of Hypophosphite of Calcium. Refer to Elixir of Calcium Hypophosphite.

#### Elixir of Hypophosphites and Cherries.

Refer for this to Elixir of Cherries and its combinations.

Elixir of Hypophosphites and Cinchona.

Refer to Elixir of Cinchona and Hypophosphites.

#### Elixir of Hypophosphites with Iron.

Calcium hypophosphitegr. Sodium hypophosphitegr.	
Potassium hypophosphitegr.	64
Sulphate of iron, clear crystals gr.	96
Citric acidgr.	30
Distilled waterfl.oz.	4
Simple syrupfl.oz.	4
Aromatic elixir, enough to	
makefl.oz.	16

Dissolve the hypophosphites in 3 fluidounces of water, and add the syrup. Dissolve the sulphate of iron in the remainder of the water, and mix this with the other Then add 6 fluidounces of arosolution. matic elixir, set the mixture aside, in a cold place, for 12 hours, and filter from the deposited calcium sulphate. Finally, dissolve the citric acid in the filtrate, and pass enough aromatic elixir through the filter to make 16 fluidounces.

Each fluidram contains about 1 gr. of hypophosphite of iron (ferrous), about 1 gr.

each of the hypophosphites of calcium and sodium, and  $\frac{1}{2}$  gr. of potassium hypophosphite. --N. F.

#### Elixir of Hypophosphites of Iron and Quinine.

Iron hypophosphitegr.	128
Potassium citrategr.	128
Quinine sulphate gr.	128
Calcium hypophosphitegr.	80
Spirit of orangefl.dr.	2
Orange flower waterfl.oz.	1
Sugarav.oz.	5
Alcohol,	
Distilled water	icient

Dissolve the iron hypophosphite with the aid of the potassium citrate in the orange flower water, and enough water to make the solution measure 6½ fluidounces, and in this dissolve the sugar. Triturate the quinine sulphate with 5 fluidounces of alcohol, add a solution of the calcium hypophosphite in 4 fluidrams of water, and shake the mixture occasionally during 1 hour; filter, and wash the filter with enough alcohol to make 6½ fluidounces. Add this solution to the spirit of orange, mix this with the iron solution and sugar solution previously prepared, and filter the whole.

Each fluidram contains 1 gr. each of the hypophosphites of iron and quinine.

#### Solution of iron hypophosphite,

N. F		fl.c	Ir. 1214
Quinine hyp	pophosphite		т. 128
Hypophosp			
Simple elixi			

Mix the quinine hypophosphite with 8 fluidounces of elixir, add enough of the acid to dissolve the quinine, add the solution of iron hypophosphite, and then enough elixir to make 16 fluidounces, and filter.

This is of the same strength as the preceding.

#### Elixir of Hypophosphites of Iron, Quinine and Strychnine.

This may be prepared by dissolving 14 gr. of strychnine sulphate in 4 fluidrams of distilled water, and adding enough of the preceding elixir to make 16 fluidounces.

#### Elixir of Hypophosphites with Malt.

Refer for above to Elixir of Calcium Hypophosphite and its combinations.

## Elixir of Hypophosphite of Iron.

Refer to Elixir of Iron Hypophosphite.

## Elixir of Hypophosphite of Sodium.

Sodium hypophosphitegr. Citric acidgr.	256 30	
Aromatic elixir, enough to		
make fl.oz.	16	

Dissolve the sodium hypophosphite and the citric acid in the elixir by agitation, and filter, if necessary.

Each fluidram contains 2 gr. of sodium hypophosphite.-N. F.

#### Elixir of Hypophosphites with Tar.

Refer to Elixir of Calcium Hypophosphite and its combinations.

#### Elixir of Six Iodides.

Add the six iodides to the elixir, dissolve by agitation, add a few grains of sodium hypophosphite, or sufficient to decolorize the liquid, and filter.

Each fluidram contains 1-128 gr. each of arsenic and mercury iodides, 1-12 gr. of ferrous iodide, 1-10 gr. of manganese iodide, and 1 gr. each of sodium and potassium iodides.

## Elixir of Iodides of Arsenic and Mercury.

Refer for this to Elixir of Arsenic and its combinations.

#### Elixir of Iodide of Calcium.

Refer for the above to Elixir of Calcium Iodide.

## Elixir of Iodide of Potassium Compound. (Alterative Elixir.)

Potassium iodidegr.	640
Tincture of citrochloride of	
ironfl.dr.	101
Spirit of orangefl.dr.	4
Fluid etrxact of saxifrage fl.dr.	12
Fluid extract of stillingiafl.dr.	12
Fluid extract of menispermum fl.dr.	12
Fluid extract of heloniasfl.dr.	12
Sugarav.oz.	4+
Water, enough to make fl.oz.	16

Dissolve the potassium iodide in the water,

.

add the tincture of iron, and in this mixture dissolve the sugar by agitation. Mix the fluid extracts, add the spirit, then the syrup, allow the whole to stand for two days, and	Elixir of Iron, Bismuth and Pepsin. Elixir of Iron, Bismuth, Pepsin and Quinine.
filter.	Elixir of Iron, Bismuth and Strych-
Each fluidram contains 5 gr. of potassium iodide, and represents about $\frac{1}{2}$ gr. of ferric chloride, and about $5\frac{1}{2}$ gr. each of saxifraga,	nine. Refer for the above to Elixir of Bismuth and its combinations. Elixir of Iron, Damiana, Nux Vomica-
stillingia, menispermum and helonias.	and Phosphorus.
Elixir of Iodide of Potassium.	-
Potassium iodidegr. 640 Aromatic elixir of licorice, enough to makefl.oz. 16	Elixir of Iron, Damiana and Phospho- rus. Refer for the above to Elixir of Damiana
Dissolve by agitation.	and its combinations.
Each fluidram contains 5 gr. of potassium	Elixir of Iron, Calcium Lactophos-
iodide.	phate and Cinchona.
Elixir of Iron and Ammonium Valeri-	Elixir of Iron and Cinchona.
anate.	Elixir of Iron, Cinchona and Pepsin.
Refer for this to Elixir of Ammonium Va-	Elixir of Iron, Cinchona and Strych-
lerianate and its combinations.	nine.
Elixir of Iron, Beef and Cinchona.	Refer for the above to the National Formu-
Elixir of Iron, Beef, Cinchona and	lary.
Strychnine.	Elixir of Iron, Cinchona and Phospho-
Elixir of Iron, Beef and Coca.	rus.
Elixir of Iron, Beef and Malt.	Refer for above to Elixir of Cinchona and
Refer for above under Elixir of Beef and	its combinations.
its combinations.	Elixir of Iron and Cinchonidine.
Elixir of Iron and Arsenic Chlorides.	Elixir of Iron, Cinchonidine and
Elixir of Iron, Arsenic and Mercury	Stry-chnine.
Chlorides.	Refer for above to Elixir of Cinchonidine
Refer for above to Elixir of Arsenic and	and its combinations.
its combinations.	Elixir of Iron and Malt.
Elixir of Iron and Berberine.	Refer to the National Formulary.
Refer for above to Elixir of Berberine and	Elixir of Iron, Malt and Beef.
its combinations.	Refer for this to Elixir of Beef and its
Elixir of Iron and Bismuth.	combinations.
Elixir of Iron, Bismuth and Cinchona. Elixir of Iron, Bismuth, Cinchona and Pepsin.	Elixir of Iron and Pepsin. (Ferrated Elixir of Pepsin.)
Elixir of Iron, Bismuth, Cinchona,	Refer to Elixir of Pepsin and Iron.
Pepsin and Strychnine.	Elixir of Iron, Pepsin and Quinine.
Elixir of Iron, Bismuth, Cinchona and	Iron pyrophosphate, solublegr. 256
Strychnine.	Quinine hydrochlorategr. 32 Distilled water, hotfl.oz. 1
Elixir of Iron, Bismuth and Gentian.	Elixir of pepsin, N. F., enough
Elixir of Iron, Bismuth, Gentian and	to makefl.oz. 16
Strychnine.	Dissolve the iron salt in the water, add
Elixir of Iron, Bismuth and Golden	the elixir and the quinine salt, agitate occa-
Seal.	sionally until dissolved, and filter. Each

-

## PHARMACEUTICAL PREPARATIONS.

fluidram contains 2 gr. of iron pyrophosphate,  $\frac{1}{2}$  gr. of quinine hydrochlorate, and nearly 1 gr. of pepsin.

#### Elixir of Iron, Quinine and Arsenic.

Iron pyrophosphategr.	128
Quinine hydrochlorate gr.	64
Solution of arsenious acidm.	400
Distilled water, hotfl.dr.	4
Simple elixir, enough to make fl.oz.	16

Dissolve the iron pyrophosphate in the water, dissolve the quinine in about 12 fluidounces of elixir, by agitation, mix the solutions, add the acid solution and the remainder of the elixir, then neutralize exactly with ammonia water, carefully added, and filter.

Each fluidram contains 1 gr. of iron pyrophosphate,  $\frac{1}{2}$  gr. of quinine hydrochlorate, and 1-32 gr. of arsenious acid.

#### Elixir of Iron, Quinine and Strychnine.

Tincture of citrochloride of iron fl.oz.	2
Quinine hydrochlorategr.	64
Strychnine sulphategr.	11
Alcoholfl.dr.	4
Aromatic elixir, enough to make fl.oz.	

Dissolve the alkaloidal salts in 12 fluidounces of elixir, then add the tincture and the alcohol, and finally, the remainder of the elixir; filter, if necessary.

Each fluidram represents about 1 gr. of ferric chloride,  $\frac{1}{2}$  gr. of quinine hydrochlorate, and 1-100 gr. of strychnine sulphate.— N. F.

#### Elixir of Iron and Wild Cherry. (Ferrated Elixir of Wild Cherry.)

Iron pyrophosphategr.	128
Distilled water, hotfl.dr.	4
Fluid extract of wild cherry. fl.oz.	2
Alcoholfl.oz.	2
Simple elixir, enough to make fl.oz.	16

Mix the alcohol and fluid extract, add the elixir, and then iron salt previously dissolved in the water, and filter through purified talcum.

Each fluidram contains 1 gr. of iron pyrophosphate, and represents  $7\frac{1}{2}$  gr. of wild cherry.

## Elixir of Iron Chloride Tincture and Gentian.

Refer to Elixir of Gentian and Iron Chloride Tincture.

#### Elixir of Iron and Quinine Citrate. (Elixir of Iron and Quinine.)

Citrate of iron and quinine, ..., gr. 256 Water .....fl.oz. 1 Aromatic elixir, enough to make fl.oz 16

Dissolve the citrate in the water, add the elixir, and filter. Each fluidram contains 2 gr. of iron and quinine citrate.

#### Elixir of Iron and Hypophosphites.

Refer for this to the Elixirs of the Hypophosphites.

#### Elixir of Iron Hypophosphite.

Solution of iron hypophosphite fl.dr. 1234 Aromatic elixir, enough to make fl.oz. 16

Mix, allow the mixture to stand a few days in a cool place, and filter, if necessary.

Each fluidram contains 1 gr. of ferric hypophosphite.-N. F.

#### Elixir of Iron and Quinine Hypophosphites.

Elixir of Iron, Quinine and Strychnine Hypophosphites.

Refer for the above to the Elixirs of Hypophosphites.

## Elixir of Iron Lactate.

Iron lactat	e, in cr	usts ,	gr.	128
Potassium	citrate		gr.	384
Aromatic	elixir,	enough	to	

make .....fl.oz. 16

Triturate the iron lactate with the potassium citrate and about 4 fluidounces of aromatic elixir, gradually added, until solution has been effected; then add the remainder of the aromatic elixir, and filter.

Each fluidram contains 1 gr. of iron lactate.-N. F.

#### Elixir of Iron Malate, Cinchona and Gentian.

Refer to Elixir of Cinchona and its combinations.

#### Elixir of Iron Peptonate.

Dried egg albumengr. 75
(Or fresh egg albumengr. 560)
Distilled watersufficient
Hydrochloric acid
Pepsin, puregr. 4
Solution of iron oxychloridefl.dr. 15
Solution of soda
Brandyfl.dr. 14

Dissolve the albumen in 16 fluidounces of distilled water, add the hydrochloric acid and THE STANDARD FORMULARY.

pepsin, digest the mixture at a temperature of 40 degrees C., until it produces only a faint turbidity with nitric acid; allow to cool, neutralize with solution of soda, strain, mix the colature with the solution of iron oxychloride to which has been added 16 fluidounces of distilled water. The mixture is again neutralized with solution of soda, the precipitate is washed by decantation with distilled water, until the washings are no longer affected by silver nitrate. The precipitate is now drained on a well-wetted muslin strainer, transferred to a porcelain capsule, 10 m. of hydrochloric acid are added, and the mixture heated on a water bath and stirred until solution occurs. To this solution is now added distilled water to make 141 fluidounces, and lastly, the brandy is added.-D.

Iron peptonate may be obtained by spreading the solution in the porcelain capsule upon glass plates and allowing to dry.

II.

Pepsin, puregr.	
Dried egg albumengr.	30
Simple syrupfl.dr.	4
Solution of dialized iron or iron-	
oxychloridefl.dr.	121%
Aromatic elixirfl. dr.	121/2
Distilled water, enough to make fl. oz.	16

Dissolve the albumen in 31 fluidounces of water, add the pepsin and digest for four hours at 50 degrees C. Mix the syrup and solution of iron with 9 fluidounces of the water, then add to the pepsin solution and heat to 90 degrees. C. Cool, add the elixir and the remainder of the water. Set aside for 8 days and then decant the clear solution.

If to the above be added 32 grains of cryst. manganese chloride, previously dissolved in 1 fluidram of water, it will constitute the "Solution of Iron and Manganese Peptonate."

#### Elixir of Iron Phosphate.

Iron phosphate, solublegr.	256
Water, hot	1
Aromatic elixir, enough to make fl. oz.	16

Dissolve the iron phosphate in the water, mix this solution with the aromatic elixir, and filter, if necessary.

Each fluidram contains 2 gr. of iron phosphate.-N. F.

#### Elixir of Iron Phosphate, Cinchonidine and Strychnine.

Iron phosphate, solublegr.	256
Potassium citrategr.	32
Cinchonidine sulphategr.	64
Strychnine sulphategr.	11
Alcoholfl.oz.	1
Water, hotfl.dr.	6
Aromatic elixir, enough to make fl. oz.	16

Dissolve the iron phosphate and potassium citrate in the water. To 12 fluidounces of aromatic elixir, contained in a bottle, add the alcohol, and afterwards the alkaloidal salts, and agitate until the latter are dissolved, or nearly so. Then mix the two solutions, and, having shaken the mixture, add the remainder of the aromatic elixir. Finally, filter.

Each fluidram contains 2 gr. of iron phosphate,  $\frac{1}{2}$  gr. of cinchonidine sulphate, and rds gr. of strychnine sulphate.—N. F.

## Elixir of Iron Phosphate, Gentian, Nux Vomica and Quassia.

Refer to Elixir of Gentian and its combinations.

## Elixir of Iron, Phosphate, Quinine and Strychnine.

I.

Iron phosphate, solublegr.	128
Quinine (alkaloid)gr.	64
Strychnine (alkaloid)gr.	2
Alcoholfl.oz.	2
Distilled water, hotfl.dr.	6
Aromatic elixir, enough to make fl.oz.	16

Dissolve the alkaloids in the alcohol and add 12 fluidounces of aromatic elixir, then dissolve the iron phosphate in the water, and add to the previous mixture. Finally, add the remainder of the aromatic elixir.

Each fluidram contains 1 gr. of iron phosphate,  $\frac{1}{2}$  gr. of quinine, and  $\frac{1}{64}$  gr. of strychnine.—N. F.

L.	
Strychnine (alkaloid)gr. 11	
Quinine sulphategr. 64	
Citric acid	
Iron phosphate, solublegr. 256	
Alcoholfl.oz. 3	
Simple syrupfl.oz. 6	
Distilled water, hotfl.oz. 4	
Orange flower water fl.oz. 3	
Sodium bicarbonatesufficient	

Triturate the strychnine and quinine sulphate with the acid until well mixed, and rub this mixture with the alcohol gradually added. Heat the syrup to about 65 degrees C., add to it the alcoholic liquid, and stir until clear. Dissolve the iron salt in the water, add the orange flower water, mix this with the preceding liquid, and allow to cool. Then add sodium bicarbonate in very small amounts, stirring thoroughly after each addition, until the elixir remains but slightly acid. Allow to stand for a few hours, then filter through white filter paper. Any excess of soda must be avoided.

## III.

Strychnine sulphategr.	11
Quinine hydrochlorategr.	128
Iron phosphate, solublegr.	256
Potassium citrategr.	32
Alcoholfl.oz.	11
Distilled water, hotfl.oz.	1
Glycerin	18
Aromatic elixir, enough to make fl.oz.	16

Dissolve the quinine salt in 10 fluidounces **S** elixir, mixed with the alcohol, by agita **tion**, and mix this solution with the strych **n**ine sulphate previously dissolved in 2 fluid**tans** of the water.

Dissolve the iron phosphate in 6 fluidrams of the water, add 2 fluidounces of glycerin and mix this solution with the preceding liquid. Now to this mixture add the potassium citrate dissolved in 14 fluidounces of aromatic elixir mixed with 2 fluidrams of glycerin. Allow the whole to stand for several hours, then filter.

#### IV.

Quinine sulphategr. Iron phosphate, solublegr.	
Strychnine sulphategr.	1+
Alcoholfl.oz.	2
Glycerinfl.oz.	2
Simple syrupil.oz.	2
Distilled water, hotfl.oz.	1
Aromatic elixir, enough to make fl.oz.	16

Dissolve the strychnine salt in the alcohol, and add the quinine; mix the glycerin and syrup, and heat, and when warm add to the alkaloidal solution; continue heating carefully, until quinine is dissolved, and add enough elixir to make 15 fluidounces. Dissolve the iron salt in the water, add this to previous liquid, let stand three or four hours, and filter.

Iron phosphate, solublegr. Quinine sulphategr.	
Strychnine sulphategr. Alcoholfl.oz.	1‡
Simple syrup fl.oz. Aromatic elixir, enough to make fl.oz.	-

Dissolve the iron phosphate in the syrup by the aid of heat, and raise the temperature to near the boiling point. Dissolve the alkaloidal salts in 6 fluidounces of aromatic elixir, contained in a flask, by the aid of heat, and while still hot add this solution all at once to the iron solution, shaking immediately. Allow to stand 24 hours, then filter.

## Elixir of Iron, Quinine and Strychnine Phosphates. (Elixir of Three Phosphates.)

Nearly all of the preparations dispensed under this name contain the iron as phosphate or pyrophosphate, and the quinine and strychnine in some other form than as phosphate. If it be desired to dispense such a preparation as "elixir of three phosphates," then any of the preparations made according to formulas given in this formulary under elixir of iron phosphate, or pyrophosphate, quinine and strychnine may be dispensed.

The following formula does actually contain the three bases in the form of phosphates, which are maintained in solution by the excess of hydrochloric acid:

Solution of iron chloride, U.S. P.fl.dr.	74
Quinine (alkaloid)gr.	110
Strychnine (alkaloid)gr.	1
Phosphoric acid, U. S. Pfl.dr.	24
Distilled waterfl.dr.	2
Alcoholfl.oz.	1
Simple elixirfl.oz.	10
Simple syrup, enough to make fl.oz.	16

Mix the iron solution, phosphoric acid and water, and in this mixture dissolve the alkaloids; to this solution add the syrup, and then elixir and alcohol previously mixed.

However, any elixir containing iron in the form of phosphate or pyrophosphate will inevitably darken upon exposure to light, and therefore some manufacturers place upon the market a so-called "permanent elixir of three phosphates," which contains the iron as citrochloride; a preparation of this character would be well represented by the elixir of

I.

Formulary.

#### Elixir of Iron "Protoxide".

Solution of " protoxide " of iron fl.oz. 2 Simple elixir.....fl.oz. 14

## Elixir of Iron "Protoxide" and Cinchona.

Refer to Elixir of Cinchona and its combinations.

#### Elixir of Iron Pyrophosphate.

Iron pyrophosphate, soluble...gr. 256 Distilled water, hot.....fl.oz. Aromatic elixir, enough to make fl.oz. 16

Dissolve the iron pyrophosphate in the water, add the elixir, and filter, if necessary.

Each fluidram contains 2 gr. of iron pyrophosphate .--- N. F.

Elixir of Iron Pyrophosphate and Ammonium Valerianate.

- Elixir of Iron Pyrophosphate, Ammonium Valerianate and Cinchonidine.
- Elixir of Iron Pyrophosphate, Ammonium Valerianate, Cinchonidine and Quinine.
- Elixir of Iron Pyrophosphate, Am. monium Valerianate, Cinchonidine, Quinine and Strychnine.
- Elixir of Iron Pyrophosphate, Ammonium Valerianate, Cinchonidine and Strychnine.
- Elixir of Iron Pyrophosphate, Ammonium Valerianate and Quinine.
- Elixir of Iron Pyrophosphate, Ammonium Valerianate, Quinine and Strychnine.

Refer for the above to Elixir of Ammonium Valerianate and its combinations.

## Elixir of Iron Pyrophosphate and Gentian.

Refer to Elixir of Gentian and its combinations.

## Elixir of Iron Pyrophosphate and Quinine.

This may be prepared like elixir of iron pyrophosphate, quinine and strychnine, the strychnine to be omitted, of course.

## iron, quinine and strychnine of the National Elixir of Iron Pyrophosphate, Quinine and Strychnine.

Iron pyrophosphate, solublegr. 256
Quinine sulphategr. 64
Strychninegr. 14
Citric acid
Alcohol
Spirit of orangefl dr. 11
Distilled waterfl.oz. 7
Simple syrupfl.oz. 6
Ammonia water

Triturate the quinine sulphate, strychnine and acid together, until minutely divided, and add the alcohol and spirit of orange; warm the syrup to about 65 degrees C., and add to the alcoholic mixture, stirring until clear. To this add the iron salt previously dissolved in the water; to the mixture add ammonia water, drop by drop, until the mixture is clear, and finally filter.

II.

Strychnine (alkaloid)gr.	11
Quinine (alkaloid)gr.	64
Iron pyrophosphategr.	128
Alcoholfl.oz.	2
Distilled water, hot fl.oz.	3
Simple syrupfl.oz.	3
Aromatic elixirfl.oz.	8

Dissolve the strychnine and quinine in the alcohol, also the iron salt in the water, mix the two solutions, add the syrup and then the elixir, and filter, if necessary.

III.

Strychnine (alkaloid) gr.	11
Quinine sulphategr.	64
Citric acidgr.	5
Alcoholfl.oz.	3
Simple syrupfl.oz.	6
Distilled water, hotfl.oz.	4
Orange flower waterfl.oz.	3
Iron pyrophosphate, soluble gr. !	
Sodium bicarbonate suffici	ent

Triturate together the alkaloids and the acids until thoroughly mixed; rub this with the alcohol gradually added. Heat the syrup to about 65 degrees C., add it to the alcoholic mixture, and stir until clear. Dissolve the iron salt in the water, and add the orange flower water; mix the two solutions, and when cold, add carefully bicarbonate of so-dium in small portions until the elixir remains but slightly acid. Allow to stand for a few hours, then filter through white filter paper. Excess of soda must be carefully avoided.

## Elixir of Iron Pyrophosphate and Strychnine.

Iron pyrophosphategr.	256
Strychnine sulphategr.	11
Distilied water, hotfl.oz.	2
Simple elixir, enough to make.fl.oz.	16
Dissolve the iron salt and strychnin	ne sul-

phate in the hot water, add the elixir, and filter.

Each fluidram contains 2 gr. of iron pyrophosphate and rate gr. of strychnine sulphate,

### Elixir of Iron Salicylate.

Iron salicylategr.	640
Distilled water, hotfl.oz.	21
Glycerinfl.oz.	2ľ
Simple elixir, enough to make.fl.oz.	16
Dissolve the iron salt in the hot wat	er and

glycerin, add the elixir, allow to stand for a few days and filter.

Each fluidram contains 5 gr. of iron salicylate.

Elixir of Iron Salicylate, Compo	und.
Iron salicylategr.	640
Distilled water, hotfl.oz.	21
Glycerinfl.oz.	
Fluid extract of colchicum root fl.dr.	9
Deodorized tincture of opium. fl.dr.	4 j
Simple elixir, enough to make.fl.oz.	16

Dissolve the iron salt in the hot water and glycerin, add the other ingredients, allow to stand a few days, and filter.

Each fluidram contains 5 gr. of iron salicylate and represents about 4½ gr. of colchicum root and 2 m. of deodorized tincture of opium.

## Elixir of Iron Valerianate.

Iron valerianate	gr. 128
Alcohol.	fl. oz. 1
Simple elixir	fl.oz. 15
Dissolve the iron salt in the	e alcohol, add
the elixir, and filter.	

Each fluidram contains 1 gr. of iron valerianate.

## **Elixir of Jaborandi.** (Elixir of Pilocarpus.)

Fluid extract of jaborandi	fl. oz.	1
Syrup of coffee	fl.oz.	3
Tincture of vanilla	fl.dr.	4
Compound elixir of taraxacu	m,	
enough to make	fl.oz.	16
Mix, allow the mixture to sta		

days, if convenient, and filter.

Each fluidram represents 3<sup>3</sup>/<sub>4</sub> gr. of jaborandi.-N. F.

## Elixir of Iron, Quinine and Zinc Valerianates.

Refer for this to Elixirs of Valerianates of different bases.

## Elixir of Kola.

Fluid extract of kola	.fl.oz.	2
Ammoniated glycyrrhizin	gr.	60
Saccharin	gr.	60
Oil of orange	.drops	5
Water	fl. oz.	7
Alcohol	. fl oz.	81
Simple syrup	. fl.oz.	- 8 <del>i</del>
Simple elixir, enough to make.	. fl. oz.	16

Dissolve the ammoniated glycyrrhizin in the water and in this dissolve the saccharin; add the syrup and alcohol, followed by the fluid extract of kola, to which has been added the oil of orange; set aside for 5 or 6 hours agitating occasionally; filter, and add the simple elixir.

Each fluidram represents 71 gr. of kola.

Elixir of Lactophosphate of Calcium. Elixir of Lactophosphate of Calcium

and Cinchona.

## Elixir of Lactophosphate of Calcium, Cinchona and Iron.

Refer for above to Elixir of Calcium Lactophosphate and its combinations.

# Elixir of Licorice.

Fluid extract of licorice....fl.oz. 2 Aromatic elixir.....fl.oz. 14 Mix and filter, if necessary.—N. F.

## П.

Purified extract of licorice	
(U. S. P.)av.oz.	81
Fennel waterfl.oz.	9ī
Anisated solution of ammonia. fl.oz.	<b>8</b> i

Dissolve the extract in the water and add the solution.—Germ. Pharm.

The mixture is turbid and must be shaken before use.

This second preparation is best known by the names Elixir e Succo Liquiritiæ, Elixir Pectorale, Pectoral Elixir, Liquor Pectoralis, Brust Tropfen and Brust Elixir.

## Elixir of Licorice, Aromatic.

I. Fluid extract of licoricefl.oz.	2
Oil of clovesdrops	3
Oil of cinnamon (Ceylon)drops	3
Oil of nutmegdrops	2
Oil of fenneldrops	6
Magnesium carbonategr.	120
Aromatic elixir, enough to make fl.oz.	16
Triturate the oils with the magnesiur	

THE STANDARD FORMULARY.

bonate, and gradually add 14 fluidounces of aromatic elixir. Shake occasionally during an hour, filter, and pass enough aromatic elixir through the filter to make 14 fluidounces of filtrate. Add the fluid extract to the filtrate, mix, and filter, if necessary.— N. F.

#### 11.

Cardamom (seed without capsule) gr.	16
Cinnamongr.	16
Staranisegr.	16
Coriandergr.	8
Carawaygr.	8
Canellagr.	4
Nutmeg gr.	4
Cloves	4
Vanillagr.	24
Ammoniated glycyrrhizin gr.	110
Diluted alcoholfl.oz.	61
Water, hotfl.oz.	1
Simple syrup, enough to make.fl.oz.	16
cumbre chimpi encoPi to marcounter	

Reduce the drugs to moderately coarse powder, macerate for 7 days in the diluted alcohol, and filter, adding, if necessary, enough diluted alcohol through the filter to make the filtrate measure  $6\frac{1}{2}$  fluidounces. Dissolve the glycyrrhizin in the water, mix this solution with the filtrate, and add the syrup.

#### III.

Select licorice root, cut and
slightly bruised av. oz. 21
Water of ammoniafl.dr. 4
Glycerinfl.oz. 1
Waterfl. oz. 16
Macerate for 24 hours, strain, boil for 10
Change of the second se

minutes, filter, and evaporate at gentle heat until reduced to 6 fluidounces.

Now add to this evaporated infusion:

Simple syrupfl.oz. 6	
Aicohol fl.oz. 4	
Spirit of orangefl.dr. 2	
Oil of cinnamon (Ceylon)drops 2	

This elixir is employed for disguising the taste of bitter medicines, particularly quinine. No acid should be used because it dissolves the quinine and makes its bitter taste more perceptible, and at the same time liberates the glycyrrhizin from its combination with ammonia and renders it insoluble, and therefore valueless for the purpose of disguising or modifying taste.

### Elixir of Licorice with Ammonium Chloride, Compound.

Refer for this to Elixir of Ammonium Chloride, etc.

### Elixir of Licorice Compound.

Pure extract of licorice, (U.	
S. P.)	
Wine of antimonyfl.oz.	1
Paregoricfl.oz.	2
Spirit of nitrous etherfl.dr.	4
Elixir of cherries, enough to	
makefl.oz	16

Dissolve the extract in a portion of the elixir and add the remaining ingredients.

The above replaces "brown mixture " in the form of an elixir.

#### Elixir of Lithium Bromide.

Lithium bromide......gr. 640 Citric acid.....gr. 30 Aromatic elixir, enough to make fl.oz. 16

Dissolve the solids in about 14 fluidounces of aromatic elixir, by agitation; add the remainder of the aromatic elixir and filter.

Each fluidram contains about 5 gr. of lithium bromide.-N. F.

#### Elixir of Lithium Citrate.

Lithium citrate.....gr. 640 Aromatic elixir, enough to make fl.oz. 16 Dissolve by agitation, and filter.

Each fluidram contains 5 gr. of lithium citrate.-N, F.

#### Elixir of Lithium Salicylate.

Lithium salicylate.....gr. 640 Aromatic elixir, enough to make fl.oz. 16

Dissolve by agitation, and filter.

Each fluidram contains 5 gr. of lithium salicylate.-N. F.

#### Elixir of Long Life. ("Elixir ad Longam

Vitam."	-" Elixir	of	Life."	- Com-
pound	Tincture	of	Aloes.	(Germ.
Pharm.)	("Swedish	Bit	ters.")	

Aloesgr.	005
Rhubarbgr.	35
Gentiangr.	
Zedoarygr.	35
Spanish saffrongr.	35
Waterfl.oz.	4
Alcohol,fl.oz.	13

Mix the drugs in coarse powder with the two liquids, macerate for 3 days, agitating frequently; express and filter. Sometimes 35 gr. of agaric is added to the other drugs, and the menstruum generally employed is diluted alcohol.

The following is a simple formula which

# PHARMACEUTICAL PREPARATIONS.

2

may be used for the preparation of this ancient and complicated remedy:

Tincture of	aloes and	myrrh.	fl.oz.	8
Tincture of	rhubarb		fl.oz.	2
Compound	tincture of	gentian.	fl.oz.	1
Water			fl. oz.	1
Alcohol			fl.oz.	4

# Elixir of Lupulin.

Fluid extract of lupulin	fl. oz.	1
Magnesium carbonate	av.oz.	1
Simple elixir, enough to make.	.fl.oz.	16

Triturate the fluid extract with the talcum, add the elixir, transfer to a bottle, set aside for several hours, and filter.

The above is of the strength usually furnished by manufacturers; Diehl's formula, which is largely used, directs the use of 2 fluidounces of the fluid extract to the pint of finished elixir.

# Elixir of Lupulin and Sodium Bromide.

Fluid extract of lupulin, fl.dr.	104
Purified talcumgr.	120
Sodium bromidegr.	
Aromatic elixir of licorice,	
enough to make	16

Triturate the fluid extract with the talcum, add some of the elixir, transfer to a bottle, add the sodium salt and the remainder of the elixir, dissolve by agitation, and filter after several hours.

Each fluidram represents 5 gr. of lupulin and contains 5 gr. of sodium bromide.

# Elixir of Malt.

Extract of malt.....fl.oz. 4 Simple elixir.....fl.oz. 12

# Elixir of Malt, Beef and Iron.

Refer to Elixir of Beef and its combinations.

# Elixir of Malt, and Calcium and Sodium Hypophosphites.

Refer to Elixir of Calcium Hypophosphite and its combinations.

# Elixir of Malt and Iron.

Extract of malt.....fl.oz, 4 Iron phosphate, soluble.....gr. 128 Water, hot.....fl.dr. 4 Aromatic elixir, enough to make fl.oz. 16

Dissolve the fron phosphate in the water by the aid of heat, mix the solution with the valerianate.

extract of malt, and add the elixir. Set the mixture aside for 24 hours, and filter.-N. F.

Each fluidram represents 1 gr. of iron phosphate and 15 m. of extract of malt.

Extract of malt, most suitable for this preparation, should have about the consistence of balsam of Peru, at a temperature of about 15 degrees C.

# Elixir of Malt and Pepsin.

Elixir of malt.....fl.oz. 8 Elixir of pepsin; N. F.....fl.oz. 8

Mix and filter.

Each fluidram represents 1 gr. of pepsin and 15 m. of extract of malt.

# Elixir of Manaca and Salicylates.

Fluid extract of manacafl.oz.	24
Sodium salicylateav.oz.	134
Potassium salicylategr.	
Lithium salicylategr.	96
Simple elixir, enough to make, 9, oz.	16

Dissolve the salicylates in some of the elixir, add the fluid extract and the remainder of the elixir, allow to stand for a few hours, and filter through talcum.

Each fluidram contains 6 gr. of sodium salicylate, 3 gr. of potassium salicylate, and 4 gr. of lithium salicylate and represents nearly 10 gr. of manaca.

# Elixir of Matico, Compound.

Fluid extract of matico, fl.oz. 3
Fluid extract of buchufl.oz. 11
Fluid extract of cubebfl.oz. 1
Alcoholfl.oz. 2
Simple elixirfl.oz. 4
Compound elixir of taraxacumfl.oz. 4
Mix, set aside for 3 days, and filter through
talcum.

Each fluidram represents 11 gr. of matico and nearly 4 gr. each of buchu and cubeb.

# Elixir Mercury and Arsenic Iodides.

Refer to Elixir of Arsenic and its combinations.

Elixir of Mercury, Arsenic and Iron Chlorides.

Refer to Elixirs of Chlorides for above.

# Elixir of Morphine Valerianate.

Morphine valerianate.....gr. 16 Simple elixir.....fl.oz. 16

Dissolve by agitation, and filter.

Each fluidram contains 1/8 gr. of morphine lerianate,

<ul> <li>Elixir of Nux Vomica, Bismuth and Pepsin.</li> <li>Refer to Elixir of Bismuth and its combi- nations.</li> <li>Elixir of Nux Vomica, Damiana,</li> </ul>	dissolve the extracts, filter, and add enough sherry wine through the filter to make the fil- trate measure 16 fluidounces.—Germ. Pharm. The National Formulary also recognizes what is identically the same preparation un-
Iron and Phosphorus. See Elixir of Damiana and its combina- tions.	der the title of "compound wine of orange"; in the latter no extracts are used, but the drugs themselves are mixed with the orange peel, cinnamon, and potassium carbonate,
Elixir of Nux Vomica, Gentian, Iron and Quassia. Refer to Elixir of Gentian and its combi- nations.	the whole being extracted by percolation. Elixir of Pancreas. Take 1 pig pa acreas, chop into pieces, and
Elixir of Nux Vomica and Phospho- rus. Tincture of nux vomicafl.dr. 41 Elixir of phosphorus, enough to makefl.oz. 16 Mix them. This preparation should be	macerate in a cool place for 3 days in a mix- ture of Waterfl.oz. 32 Glycerinfl.oz. 61 Hydrochloric acidfl.dr. 5 Strain, add 1 fluidram of oil of orange and
freshly made, when wanted for use. Each fluidram represents 2 m. of tincture of nux vomica, and nearly 1-50 gr. of phos- phorus.—N. F.	enough glycerin to make 48 fluidounces, and filter. Elixir of Pancreatin. Pancreatin, puregr. 128 Sodium bicarbonategr. 16 Waterfl.oz. 2
Elixir of Orange. Oil of orange	Simple elixir, enough to make fl.oz. 16 Macerate the pancreatin in the water for 24 hours, add the sodium bicarbonate, tritu- rate until dissolved, gradually add the elixir and filter. Each fluidram represents 1 gr. of pancre-
shake well, and then add the other ingredi- ents in small portions at a time, agitating well after each addition.—U. S. P. 1880 modified. The oil used should be a perfectly fresh sweet oil of orange peel.	Each huidrain represents 1 gr. of pancre- atin. The elixir of pancreas may be substituted for the above, if deemed desirable. Elixir of Pancreatin and Bismuth. Refer to Elixir of Bismuth and its combi-
Elixir of Orange, Compound. (Com- pound Wine of OrangeVinum Ama- rum Bitter WineFlixir Stomachi-	nations. Elixir of Pancreatin, Bismuth and

rum, Bitter Wine .-- Elixir Stomachicum, Stomachic Elixir.-Elixir Viscerale Hoffmanni.) ar 1600 Bitter orange neel cut

Bitter orange peel, cutgr.	1000
Cinnamon, bruisedgr.	320
Potassium carbonategr.	- 80
Extract of gentiangr.	160
Extract of wormwoodgr.	160
Extract of buckbeangr.	160
Extract of cascarillagr.	160
Sherry wine, enough to make fl.oz.	16

Macerate the orange peel, cinnamon, and

Citrate of bismuth and ammo-....

Pepsin.

niumgr.	128
Pancreatin, puregr.	
Pepsin, puregr.	64
Distilled water, hot fl.oz.	1
Water of ammoniasuffic	ient
Glycerinfl.oz.	2
Waterfl.oz.	2
Tincture of cudbearfl.dr.	2
Simple elixir, enough to make.fl.oz.	16

Triturate the bismuth salt with the water, potassium carbonate with 16 fluidounces of allow the insoluble portion to subside, decant sherry wine for 8 days, agitating occasion- the clear portion, to the residue add ammonia ally; express the liquid portion, in the latter water very gradually, until solution occurs,

carefully avoiding any excess, and mix this liquid with the decanted portion.

Macerate the pepsin and pancreatin with the glycerin and water for 24 hours, agitating occasionally; add the tincture, the bismuth solution, and the elixir, and filter through purified talcum.

Each fluidram contains 1 gr. each of pepsin and of citrate of bismuth and ammonium, and  $\frac{1}{2}$  gr. of pancreatin.

# Elixir of Pancreatin and Pepsin.

Pancreatin, puregr.	64
Pepsin, puregr.	
Glycerinfl.oz.	
Waterfl.oz.	
Tincture of cudbearfl.dr.	2
Simple elixir, enough to make.fl.oz.	16

Macerate the pepsin and pancreatin with the glycerin and water for 24 hours, agitating occasionally; add the tincture and elixir, and filter through talcum.

Each fluidram contains 1 gr. of pepsin and gr. of pancreatin.

# Elixir of Pancreatin, Potassium and Rhubarb.

Refer to Elixir of Rhubarb and its combinations.

# Elixir of Papain.

Papaingr.	256
Glycerinfl.oz.	31
Sherry winefl.oz.	8
Saccharingr.	10
Chloroform waterfl.oz.	434
Mix, let stand for 7 days, agitating	
sionally, and filter.	

Each fluidram contains 2 gr. of papain.

# Elixir of Paraldehyde.

Paraldehydefl.oz. 4	
Glycerin	
Alcohol fl.oz. 5	
Tincture of cardamomfl.dr. 2	ŀ
Oil of orange	
Oil of cinnamon	
Compound tincture of cudbear.fl.dr. 2	
Aromatic elixir, enough to make fl.oz. 16	
Mix the ingredients in the order given, an	d

filter, if necessary.-N. F.

Each fluidram contains 15 m. of paraldehyde.

Elixir of paraldehyde varies in strength from 10 to 25 per cent, as prescribed in different localities. The formula here given produces a 25 per cent. elixir, and from this the weaker preparations may readily be made

by the addition of aromatic elixit colored with compound tincture of cudbear in the proportion used in the above formula.

To make a 20 per cent elixir of paraldehyde, for instance, 4 fluidounces of the 25 per cent elixir are mixed with 1 fluidounce of colored aromatic elixir. To make 5 fluidounces of 15 per cent elixir, 3 fluidounces of the 25 per cent elixir are required, and to make the same quantity of 10 per cent elixir, 2 fluidounces of the above elixir are required.

# Elixir of Pareira Brava.

Fluid extract of pareira.....fl.oz. 2

Simple elixir....fl.oz. 14 Mix, allow to stand for 24 hours and filter

through talcum.

Each fluidram represents 74 gr. of pareira brava.

# Elixir of Pepsin.

Pepsin, puregr.	128
Hydrochloric acidfl.dr.	Ŧ
Glycerin fl.oz.	2
Compound elixir of taraxacum.fl.oz.	1
Alcoholfl.oz.	3
Purified talcumgr.	120
Sugarav.oz.	- 4 <del>4</del>
Water, enough to makefl.oz.	16

Mix the pepsin with 6 fluidounces of water, add the glycerin and acid, and agitate until solution has been effected. Then add the compound elixir of taraxacum, alcohol, and the talcum, and mix thoroughly. Set the mixture aside for a few hours, occasionally agitating. Then filter it through a wetted filter, dissolve the sugar in the filtrate, and pass the remainder of the water through the filter.

Each fluidram represents 1 gr. of pepsin.— N. F.

Elixir of Pepsin, Compound. (Elixir of Lactated (or Lactinated) Pepsin.— Compound Digestive Elixir.) I.

Pepsin, soluble scalesgr.	75
Pancreatin, puregr.	8
Diastasegr.	8
Lactic acidm.	20
Hydrochloric acidm.	40
Glycerin fl.oz.	4
Waterfl.oz.	2
Tincture of cudbear, N. Ffl.dr.	2
Talcum, purifiedgr.	120
Aromatic elixir, enough to make fl.oz.	16
Add the acid to the water and glyceri	n, and

to this mixture add the pepsin pancreatin,	Elixir of Pepsin and Iron.
and diastase, and macerate until apparently	Tincture of citrochloride of iron.fl.dr. 94
dissolved; then add the tincture and aromatic	Elixir of pepsin, enough to make fl.oz. 16
elixir; thoroughly incorporate the purified	Mix and filter, if necessary.
talcum and filter.—N. F.	Each fluidram represents about 1 gr. of
II. Pepsin, puregr. 80	chloride of iron (ferric), and nearly 1 gr. of
Pepsin, puregr. 80 Pancreatingr. 40	pepsin.—N. F.
Diastase or ptyolingr. 10	Elixir of Pepsin, Iron and Quinir 9.
Cudbear, powderedgr 180 Diluted hydrochloric acidm. 20	
Lactic aciddrops 3	Refer to Elixirs of Iron and comLinations.
Alcohol fl.oz. 5	Elixir of Pepsin and Malt.
Water	Refer to Elixir of Malt and its combina-
Mix all the above except the syrup, macer-	tions.
ate for 8 days, agitating frequently; filter, to	Elixir of Pepsin and Quinine.
the filtrate add the syrup, and then through	
the filter add enough of a mixture of alcohol	Quinine sulphategr. 32
and water, in the proportion of 5 to 7 by	Elixir of pepsinfl.oz. 16
measure, to make the liquid measure 16 fluid-	Agitate until dissolved and filter.
ounces.	Each fluidram contains 1 gr. of pepsin and $\frac{1}{2}$ gr. of quinine sulphate.
Elixir of Pareira and Buchu.	f gr. of quinne suphate.
Elixir of Pareira and Buchu, Com-	Elixir of Pepsin, Quinine and Strych-
pound.	nine.
Refer for these to Elixir of Buchu and its	Strychnine sulphate gr. 1
combinations.	Distilled waterfl.dr. 4 Elixir of pepsin and quininefl.oz. 154
Elixir of Pepsin and Bismuth.	••••••
Elixir of Pepsin, Bismuth and Cin-	Dissolve the alkaloidal salt in the water and add the elixir.
chona.	Each fluidram contains 1-100 gr. of strych-
Elixir of Pepsin, Bismuth, Cinchona and Iron.	nine sulphate, nearly $\frac{1}{2}$ gr. of quinine sul-
Elixir of Pepsin, Bismuth, Cinchona,	phate, and nearly 1 gr. of pepsin.
Iron and Strychnine.	
Elixir of Pepsin, Bismuth and Iron.	Elixir of Pepsin and Strychnine.
Elixir of Pepsin, Bismuth, Iron and	Strychnine sulphategr. 1
Quinine.	Distilled water
Elixir of Pepsin, Bismuth and Nux	Dissolve the alkaloidal salt in the water
Vomica.	and add the elixir.
Elixir of Pepsin, Bismuth, and Qui-	Each fluidram contains 1-100 gr. of strych-
nine,	nine sulphate and nearly 1 gr of pepsin.
Elixir of Pepsin, Bismuth, and	• • • • • • •
Strychnine.	Elixir of Pepsin and Wafer Ash.
Elixir of Pepsin, Bismuth and Wafer Ash.	(Elixir Pepsin and Ptelea.)
Refer for above to Elixir of Bismuth and	Pepsin, puregr. 128 Simple elixirfl.oz. 14
its combinations.	Fluid extract of wafer ashfl.oz. 2
Elixir of Pepsin and Cinchona.	Purified talcumgr. 120
Elixir of Pepsin, Cinchona and Iron.	Add the pepsin to the simple elixir, agitate
Elixir of Pepsin, Cinchona and	until dissolved, add the remaining ingredi-
Strychnine.	ents, set aside for 24 hours, and filter.
Refer for above to Elixir of Cinchona and	Each fluidram contains 1 gr. of pepsin and
its combinations.	represents 71 gr. of wafer ash.

# Elixir of Phosphorus.

1.

Spirit of phosphorusfl.oz.	334
Oil of anisem.	16
Glycerinfl.oz.	9
Aromatic elixiz enough to make fl.oz.	

To the spirit contained in a bottle, add the oil and glycerin, and mix by repeatedly inverting bottle until a clear liquid is obtained. Then add the clixir in several portions, gently agitating after each addition, until all is added.—U. S. P.

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Phosphorusgr.	21/2
Chloroform fl.dr.	4
Alcoholfl.oz.	
Glycerin, enough to makefl.oz.	16

Dissolve the phosphorus in the chloroform, add the alcohol, and then the glycerin.—Brit. Form.

Each fluidram. contains 1-50 gr. of phosphorus.

# Elixir of Phosphorus, Compound.

Strychnine sulphategr.	11
Quinine sulphategr.	64
Iron pyrophosphate	128
Distilled water, hotfl.oz.	1
Alcoholfl.oz.	1
Elixir of phosphorusfl.oz.	8
Simple elixir, enough to make fl.oz.	16

Dissolve the strychnine salt in 4 fluidrams of the water, and the iron salt in the remainder of the water.

Mix the alcohol and elixir of phosphorus, add the two solutions already prepared, then the quinine salt and the simple elixir, agitate until dissolved, and filter in a well-covered funnel.

Each fluidram contains 1-100 gr. of strychnine sulphate, 1 gr. of iron pyrophosphate,  $\frac{1}{2}$  gr. of quinine sulphate and 1-100 gr. of phosphorus.

# Elixir of Phosphorus, Cinchona and Iron.

Refer to Elixir of Cinchona and its combinations.

# Elixir of Phosphorus and Coca.

Refer to Elixir of Coca and its combinations.

# Elixir of Phosphorus and Damiana.

Elixir of Phosphorus, Damiana and Iron.

Elixir	of	Phosphorus,	Damiana,	Iron
and	d N	lux Vomica.		
Elixir	of	Phosphorus,	Damiana	and

- Nux Vonica.
- Elixir of Phosphorus, Damiana and Strychnine.

Refer for above to Elixir of Damiana and its combinations.

# Elixir of Phosphorus and Gentian.

Refer for this to Elixir of Gentian and its combinations.

Elixir of Phosphorus and Nux Vomica.

Refer to Elixir of Nux Vomica and its combinations.

# Elixir of Phosphorus, Quinine and Strychnine.

Elixir of phosphorusfl.oz.	8
Quinine hydrochlorategr.	32
Strychnine sulphategr.	11
Distilled waterfl.dr.	
Tincture of cudbearfl.dr.	2
Simple elixir, enough to makefl.oz.	16

Dissolve the quinine salt in 7 fluidounces of simple elixir, and the strychnine salt in the water, mix the two solutions, and then add the other ingredients.

Each fluidram contains 1-100 gr. of strychnine sulphate,  $\frac{1}{2}$  gr. of quinine sulphate, and 1-100 gr. of phosphorus.

# Elixir of Phosphorus and Strychnine.

man or a nosphorus and serychin	mo.
Strychnine sulphategr.	11
Distilled waterfl.dr.	4
Elixir of phosphorusfl.oz.	8
Tincture of cudbearfl.dr.	
Simple elixir, enough to makefl.oz.	
• • • • • • •	

Dissolve the quinine salt in the water and add the remaining ingredients.

Each fluidram contains 1-100 gr. each of phosphorus and strychnine sulphate.

# Elixir of White Pine, Compound.

Fluid extract of white pine bark fl.oz. 1 Fluid extract of balsam gilead
budsm. 64
Fluid extract of spikenardm. 64
Fluid extract of wild cherry
bark
Sanguinarine nitrategr. 2
Morphine acetategr. 3
Chloroform
Alcoholfl.oz. 7
Waterfl.oz. 4
Simple syrupfl.oz. 3

Mix the fluid extracts with the alcohol,

<ul> <li>water and syrup previously mixed, and filter through purified talcum until clear; add the chloroform and dissolve the sanguinarine and morphine salts in the mixture.</li> <li>The above represents the now well-known "white pine cough syrup " in the elixir form.</li> <li>Elixir of Potassium Acetate.</li> <li>Potassium acetategr. 640 Aromatic elixir, enough to make fl.oz. 16 Dissolve the potassium acetate in the elixir, and filter, if necessary.</li> <li>Each fluidram contains 5 gr. of potassium acetateN F.</li> </ul>	Elixir Proprietatis Paracelsi. This is very similar to preceding. It con- tains double the amount of saffron, and 14 fluidounces of the alcohol is replaced by di- luted sulphuric acid. Elixir Pulmonic. (Pectoral Elixir.) Pure extract of licorice, U. S. P.gr. 300 Fluid extract of squill
Elixir of Potassium Acetate, Buchu and Juniper. Elixir of Potassium Acetate, Buchu, Juniper and Uva Ursi.	Dissolve the morphine salt in the water add the licorice extract, mix well, add the remaining ingredients, and filter. Each fluidram contains 1-16 gr. of mor-
Refer for abova to Elixi of Buchu and its combinations. Elixir of Potassium Acetate and Juni-	phine sulphate. Elixir of Quassia, Gentian, Iron and Nux Vomica. Refer to Elixir of Gentian and its combi-
per. Potassium acetategr. 640 Fluid extract of juniperfl.oz. 2 Magnesium carbonategr. 120 Aromatic elixir, enough to make fl.oz. 16	nations. Elixir of Quinine. (Elixir of Quinine Sulphate.)
Triturate the fluid extract with the magne- sium carbonate, add 12 fluidounces of aro- matic elixir, in which the potassium acetate has previously been dissolved, filter and add the remainder of the aromatic elixir through the filter. Each fluidram represents 5 gr. of potas-	Quinine sulphategr. 128 Simple elixirfl.oz. 16 Mix and dissolve by agitation, warming gently, if necessary, and filtering. Each fluidram contains 1 gr. of quinine sulphate. Elixir of Quinine Bisulphate.
sium acetate, and 7½ gr. of juniper.—N. F. Elixir of Potassium Bromide.	Quinine bisulphategr. 128 Simple elixirfl.oz. 16 Dissolve by agitation and filter, if neces-
Refer to the Elixirs of Bromides. Elixir of Potassium Iodide.	sary. Each fluidram contains 1 gr. of quining
Elixir of Potassium Iodide, Compound. Refer to the Elixirs of Iodides, etc. Elixir Proprietatis. (Tincture Aloes Crocata.)	<ul> <li>bisulphate.</li> <li>Elixir of Quinine, Compound. (Elixir of Cinchona Alkaloids.)</li> <li>Quinine sulphategr. 16</li> <li>Cinchonidine sulphategr. 8</li> <li>Cinchonine sulphategr. 8</li> <li>Aromatic elixir, enough to make. fl.oz. 16</li> </ul>
Myrrh, coarse powderav.oz. 1 Spanish saffron, cutgr. 110 Alcoholfl.oz. 16	Add the alkaloidal salts to the aromatic elixir, dissolve them by agitation, and filter. N. F.
Mix, macerate for 8 days, and filter. In the United States, the official tincture of aloes and myrrh is frequently, though im- properly, dispensed for the above preparation.	Each fluidounce contains 1 gr. of quinine sulphate, and $\frac{1}{2}$ gr. each of cinchonidine and cinchonine sulphate. If it is desired to impart a color to this

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elixir, this may be effected by the addition of	Elixir of Quinine and Pepsin.
2 fluidrams of compound tincture of cudbear	Refer to Elixir of Pepsin and its combi-
to the above quantity.	nations.
Elixir of Quinine and Ammonium	Elixir of Quinine and Phosphates.
Valerianate.	Quinine sulphategr. 32
Elixir of Quinine, Ammonium Valeri-	Iron phosphate, soluble, hotgr. 128
anate and Cinchonidine.	Potassium citrate
Elixir of Quinine, Ammonium Valeri-	Syrup of calcium lactophos-
anate, Cinchonidine and Iron.	phate
Elixir of Quinine, Ammonium Valer-	Aromatic elixir, enough to make fl. oz. 16
ianate, Cinchonidine, Iron and	Dissolve the quinine sulphate in 10 fluid-
Strychnine.	ounces of aromatic elixir, if necessary, with
Elixir of Quinine, Ammonium Valeri-	the aid of a gentle heat. Dissolve the iron
anate, Cinchonidine and Strych-	phosphate and the potassium citrate in the
nine.	water, and add the solution to that first pre-
Elixir of Quinine, Ammonium and	pared. Then add the syrup of calcium lac-
Strychnine Valerianates.	tophosphate and lastly the remainder of the
Refer for above to Elixir of Ammonium	elixir; filter, if necessary.
Valerianate and its combinations.	Each fluidram contains 1 gr. of quinine
Elixir of Quinine and Arsenic.	sulphate, 1 gr. of iron phosphate, and about
Elixir of Quinine, Arsenic and Iron.	<sup>3</sup> <sub>4</sub> gr. of so-called calcium lactophosphate.—
Refer to Elixir of Arsenic and its combi-	N. F.
nations.	Elixir of Quinine, Phosphorus and
Elixir of Quinine and Bismuth.	Strychnine.
Elixir of Quinine, Bismuth, Iron and	Refer to Elixir of Phosphorus and its com-
Pepsin.	binations.
Elixir of Quinine, Bismuth and Pep-	
sin.	Elixir of Quinine and Strychnine.
Refer to Elixir of Bismuth and its combi-	Quinine sulphategr. 64
nations.	Strychnine sulphate
Elixir of Quinine and Croton Chloral.	
Refer to Elixir of Croton Chloral Hydrate	Dissolve the alkaloidal salts in the elixir
and its combinations.	by agitation, and filter.
Elixir of Quinine and Iron Citrate.	Each fluidram contains $\frac{1}{2}$ gr. of quinine
Elixir of Quinine, Iron and Pepsin.	sulphate and 1-100 gr. of strychnine sulphate.
Elixir of Quinine, Iron and Strych-	Elixir of Quinine Valerianate.
nine.	Quinine valerianategr. 128
Elixir of Quinine and Iron Hypo-	
	Tincture of cudbearfl.dr. 2
phosphites.	Simple elixir, enough to make.fl.oz. 16
Elixir of Quinine, Iron and Strych-	Simple elixir, enough to make.fl.oz. 16 Triturate the quinine valerianate with a
Elixir of Quinine, Iron and Strych- nine Hypophosphites.	Simple elixir, enough to make.fl.oz. 16 Triturate the quinine valerianate with a little of the elixir to a smooth paste. Add
Elixir of Quinine, Iron and Strych- nine Hypophosphites. Elixir of Quinine, Iron Phosphate	Simple elixir, enough to make.fl.oz. 16 Triturate the quinine valerianate with a little of the elixir to a smooth paste. Add about 8 fluidounces more of elixir, triturate
Elixir of Quinine, Iron and Strych- nine Hypophosphites. Elixir of Quinine, Iron Phosphate and Strychnine.	Simple elixir, enough to make.fl.oz. 16 Triturate the quinine valerianate with a little of the elixir to a smooth paste. Add about 8 fluidounces more of elixir, triturate until dissolved, add the tincture and the re-
<ul> <li>Klixir of Quinine, Iron and Strychnine Hypophosphites.</li> <li>Klixir of Quinine, Iron Phosphate and Strychnine.</li> <li>Klixir of Quinine, Iron and Strych-</li> </ul>	Simple elixir, enough to make.fl.oz. 16 Triturate the quinine valerianate with a little of the elixir to a smooth paste. Add about 8 fluidounces more of elixir, triturate until dissolved, add the tincture and the re- mainder of the elixir.
<ul> <li>Elixir of Quinine, Iron and Strychnine Hypophosphites.</li> <li>Elixir of Quinine, Iron Phosphate and Strychnine.</li> <li>Elixir of Quinine, Iron and Strychnine Phosphates.</li> </ul>	Simple elixir, enough to make.fl.oz. 16 Triturate the quinine valerianate with a little of the elixir to a smooth paste. Add about 8 fluidounces more of elixir, triturate until dissolved, add the tincture and the re- mainder of the elixir. Each fluidram contains 1 gr. of quinine
<ul> <li>Elixir of Quinine, Iron and Strychnine Hypophosphites.</li> <li>Elixir of Quinine, Iron Phosphate and Strychnine.</li> <li>Elixir of Quinine, Iron and Strychnine Phosphates.</li> <li>Elixir of Quinine and Iron Pyrophos-</li> </ul>	Simple elixir, enough to make.fl.oz. 16 Triturate the quinine valerianate with a little of the elixir to a smooth paste. Add about 8 fluidounces more of elixir, triturate until dissolved, add the tincture and the re- mainder of the elixir.
<ul> <li>Elixir of Quinine, Iron and Strychnine Hypophosphites.</li> <li>Elixir of Quinine, Iron Phosphate and Strychnine.</li> <li>Elixir of Quinine, Iron and Strychnine Phosphates.</li> <li>Elixir of Quinine and Iron Pyrophosphate.</li> </ul>	Simple elixir, enough to make.fl.oz. 16 Triturate the quinine valerianate with a little of the elixir to a smooth paste. Add about 8 fluidounces more of elixir, triturate until dissolved, add the tincture and the re- mainder of the elixir. Each fluidram contains 1 gr. of quinine
<ul> <li>Elixir of Quinine, Iron and Strychnine Hypophosphites.</li> <li>Elixir of Quinine, Iron Phosphate and Strychnine.</li> <li>Elixir of Quinine, Iron and Strychnine Phosphates.</li> <li>Elixir of Quinine and Iron Pyrophosphate.</li> <li>Elixir of Quinine, Iron Pyrophos-</li> </ul>	Simple elixir, enough to make.fl.oz. 16 Triturate the quinine valerianate with a little of the elixir to a smooth paste. Add about 8 fluidounces more of elixir, triturate until dissolved, add the tincture and the re- mainder of the elixir. Each fluidram contains 1 gr. of quinine valerianate.
<ul> <li>Elixir of Quinine, Iron and Strychnine Hypophosphites.</li> <li>Elixir of Quinine, Iron Phosphate and Strychnine.</li> <li>Elixir of Quinine, Iron and Strychnine Phosphates.</li> <li>Elixir of Quinine and Iron Pyrophosphate.</li> <li>Elixir of Quinine, Iron Pyrophosphate and Strychnine.</li> </ul>	Simple elixir, enough to make.fl.oz. 16 Triturate the quinine valerianate with a little of the elixir to a smooth paste. Add about 8 fluidounces more of elixir, triturate until dissolved, add the tincture and the re- mainder of the elixir. Each fluidram contains 1 gr. of quinine valerianate. Elixir of Quinine, Iron and Zinc Valerianates.
<ul> <li>Elixir of Quinine, Iron and Strychnine Hypophosphites.</li> <li>Elixir of Quinine, Iron Phosphate and Strychnine.</li> <li>Elixir of Quinine, Iron and Strychnine Phosphates.</li> <li>Elixir of Quinine and Iron Pyrophosphate.</li> <li>Elixir of Quinine, Iron Pyrophos-</li> </ul>	Simple elixir, enough to make.fl.oz. 16 Triturate the quinine valerianate with a little of the elixir to a smooth paste. Add about 8 fluidounces more of elixir, triturate until dissolved, add the tincture and the re- mainder of the elixir. Each fluidram contains 1 gr. of quinine valerianate. Elixir of Quinine, Iron and Zinc

# Elixir of Quinine and Strychnine Valerianates.

Strychnine (alkaloid)gr.	11
Valerianic acidsuffic	
Quinine valerianategr.	128
Tincture of cudbearfl.dr.	2
Simple elixir, enough to make.fl.oz.	16

Triturate the strychnine and quinine sulphate with a little elixir to a smooth paste, add 4 fluidounces of elixir and just enough valerianic acid to dissolve the alkaloids; then add the tincture and the remainder of the elixir, neutralize any excess of valerianic acid as described in the formula preceding, and filter.

Each fluidram contains 1 gr. of quinine valerianate and 1-100 gr. of strychnine valerianate.

# Elixir of Quinine Valerianate and Strychnine.

Quinine valerianategr.	128
Strychnine sulphategr.	11
Compound tincture of cudbear.fl.dr.	2
Aromatic elixir, enough to make fl.oz.	16

Triturate the quinine valerianate and the strychnine sulphate with about 8 fluidounces of aromatic elixir, until they are dissolved, then add the compound tincture of cudbear and the remainder of the aromatic elixir, and filter, if necessary.

Each fluidram contains 1 gr. of quinine valerianate, and 1-100 gr. of strychnine sulphate.--N. F.

# Elixir of Raspberry, Compound.

Fluid extract of rhatany	fl.oz.1
Fluid extract of cinnamon	fl.dr. 2
Fluid extract of cloves	fl.dr. 2
Fluid extract of nutmeg	fl.dr. 2
Fluid extract of pimento	
Raspberry juice	
Simple elixir	fl.oz. 6
Purified talcum	

Shake the talcum and fluid extracts in a bottle until well mixed, add the other ingrelients and filter.

Perhaps a preferable method of preparation, in some respects at least, would be by extracting the drugs with diluted alcohol, adding the juice to the percolate, flavoring and sweetening the mixture, and filtering.

# and Strychnine Elixir of Rhubarb, Aromatic.

Aromatic fluid extract of rhu-

barb.....fl.oz. 1 Simple elixir.....fl.oz. 15

This is of the same strength as the aromatic syrup of rhubarb of the United States

# Elixir of Rhubarb.

pharmacopœia.

Sweet tincture of rhubarb (U.		
S. P.)	. fl. oz.	8
Alcohol	.fl.oz.	1
Water		
Glycerin		
Simple syrup	. fl. oz.	2
Mix and filter.		

Each fluidram represents about 21 gr. of rhubarb.—N. F.

# Elixir of Rhubarb and Magnesium Acetate. (Elixir of Rhubarb and Magnesia.)

Magnesia, calcined......gr. 150 Acetic acid.....sufficient Fluid extract of rhubarb.....fl.oz. 2 Aromatic elixir, enough to make fl.oz. 16

Dissolve the magnesia in 2½ fluidounces of acetic acid, with the aid of a gentle heat, adding, if necessary, a little more acid, drop by drop, until the solution is neutral to testpaper. Then add the fluid extract and the elixir, and filter.

Each fluidram represents about 4 gr. of magnesium acetate and 74 gr. of rhubarb. ----N. F.

# Elixir of Rhubarb and Potassium with Pancreatin.

Rhubarb	gt.	320
Golden seal		
Cinnamon	gr.	160
Potassium bicarbonate	gr.	320
Pancreatin	gr.	320
Spirit of peppermint	.fl.dr.	1
Simple syrup	fl.oz.	2
Diluted alcohol,		
Simple elixir of each,	suffic	ient

Moisten the rhubarb, golden seal and cinnamon (first reduced to a suitable powder), with diluted alcohol, and pack moderately in a percolator; allow to macerate 48 hours and then percolate with diluted alcohol until 6 ounces have been obtained; in the percolate dissolve the potassium bicarbonate and add the pancreatin previously dissolved in the syrup, and about 4 fluidounces of elixir; mix thoroughly, add the spirit and enough elixir to make the whole measure 16 fluidounces, and filter.

This is similar to the preceding, containing only pancreatin in addition. Like the preceding also, it may be prepared with fluid extracts.

# Elixir of Rhubarb and Potassium.

(Neutralizing Elixir.)

Rhubarbgr. §	320
Golden sealgr. 1	60
Cinnamongr. 1	60
Potassium bicarbonategr. &	320
Spirit of peppermint	1
Simple syrupfl.oz.	2
Diluted alcohol,	
Simple elixirof each, sufficient	ent

Reduce the three drugs to moderately coarse powder, extract them in the usual way by percolation with diluted alcohol until 6 fluidounces of percolate are obtained. In this percolate dissolve the potassium bicarbonate, add the spirit of peppermint, syrup, and enough elixir to make 16 fluidounces of product, and filter.

This preparation represents the well-known syrup of rhubarb and potassium in the elixir form.

# Elixir of Rhubarb, Magnesia and Senna.

Magnesia, calcined	gr. 1	144
Acetic acid	. suffici	ent
Fluid extract of rhubarb	fl.dr.	81/2
Fluid extract of senna	fl.dr.	812
Simple elixir, enough to make.	fl.oz.	16

Dissolve the magnesia in 24 fluidounces of acetic acid with the aid of a gentle heat, adding, if necessary, a little more acetic acid, drop by drop, until the solution is neutral to test paper; then add the fluid extracts and elixir, and filter.

Each fluidram contains 4 gr. of magnesium acetate and represents 4 gr. each of rhubarb and senna.

# Elixir of Rhubarb and Senna.

Fluid extract of rhubarbfl.oz.	2
Fluid extract of sennafl.oz.	2
Tincture of casaofl.oz.	2
Simple elixirfl.oz.	10

Mix and filter, if necessary.

Each fluidram represents 71 gr. each of Elixir of Salicylate of Lithium. senna and rhubarb.

# Elixir of Saccharin.

Saccharingr.	384
Sodium bicarbonategr.	192
Alcoholfl.oz.	2
Distilled water, enough to make fl.oz.	16

Rub the saccharin and sodium bicarbonate in a mortar, with 8 fluidounces of water gradually added; when dissolved, add the alcohol, filter, and wash the filter with the remainder of the water.

Twenty minims contain 1 gr. of saccharin. -Brit. Form.

This preparation is intended as a sweetening agent in place of sugar or syrup.

# Elixir of Salicylic Acid.

Salicylic acidgr.	640
Potassium citrategr.	960
Glycerinfl.oz.	
Aromatic elixir, enough to make fl.oz.	

Dissolve the potassium citrate in the glycerin with the aid of a gentle heat, add the acid, and continue the heat until it is dissolved; then add the elixir. This elixir should be freshly made when wanted for use.

Each fluidram contains 5 gr. of salicylic acid.-N. F.

# Elixir of Salicylic Acid, Compound.

Salicylic acidgr.	640
Sodium bicarbonategr.	480
Potassium iodidegr.	192
Fluid extract of black cohosh. fl.dr.	4
Fluid extract of gelsemium fl.dr.	2
Compound spirit of orangefl.dr.	1
Glycerin	4
Waterfl.oz.	4
Alcoholfl.oz.	4
Simple syrup, enough to make.fl.oz.	16

Mix the acid, sodium bicarbonate and water in a capacious mortar, stir occasionally until reaction is completed, add the potassium iodide, stir until dissolved, then add the alcohol, glycerin, fluid extracts, spirit and syrup, and filter.

# Elixir of Salicylates and Manaca.

Refer for this to Elixir of Manaca, etc.

Elixir of Salicylate of Iron.

Elixir of Salicylate of Iron, Compound.

Refer to combinations of elixirs containing iron.

Refer to Elixir of Lithium Salicylate.

Elixir of Salicylate of Sodium. Refer to Elixir of Sodium Salicylate.
Elixir of Salicylate of Sodium and Cascara Sagrada. Refer to Elixir of Cascara Sagrada and its combinations.
Elixir of Senna. I. Deodorized fluid extract of senna.fl.oz. 8 Compound tincture of cardamom fl.oz. $\frac{1}{2}$ Simple elixirfl.oz. $7\frac{1}{2}$
II. Alexandria sennaav.oz. 11 Sugarav.oz. 8 Alcohol, Water, Diluted alcoholof each, sufficient Chloroformm. 16 Oil of corianderdrops 2 Tincture of capsicumm. 20

Mix  $2\frac{3}{4}$  fluidounces of alcohol with  $8\frac{1}{4}$ fluidounces of water, and with it evenly moisten the senna; pack tightly in a closed vessel, macerate for 3 days, express forcibly, break up the marc, macerate it with enough more of the same kind of menstruum to furnish, in all, 11 fluidounces of liquid, express in 24 hours, mix the two liquids, add the sugar, heat in a closed vessel by means of a waterbath to 94 degrees C., maintain at this temperature 10 minutes, allow to cool, strain, add the chloroform, tincture of capsicum, and oil of coriander, first mixed with 2 fluidrams of alcohol, and finally add, if necessary, enough diluted alcohol to make 16 fluidounces.-Brit. Form.

According to American ideas, a better product could be obtained by macerating the finely cut senna with 12 fluidounces of alcohol for 24 hours, expressing, drying, extracting by percolation with diluted alcohol, dissolving the sugar in the liquid by agitation or percolation, and to the solution adding the chloroform and oil first dissolved in the alcohol.

# Elixir of Senna, Compound.

Fluid extract of sennafl.oz.	2
Purified tamarind pulpav.oz.	4
Oil of corianderdrops	12
Alcoholfl.dr.	2
Simple elixir, enough to makefl.oz.	16

Dissolve the oil in the alcohol, add to the fluid extract and pulp, then add the elixir.

# Elixir of Senna and Buckthorn.

Refer to Elixir of Buckthorn and its combinations.

Elixir of Senna, Magnesia and Rhubarb.

# Elixir of Senna and Rhubarb.

Refer to Elixir of Rhubarb and its combinations.

# Elixir of Sodium Bromide.

Refer to the Elixirs of Bromides.

Elixir of Sodium Bromide and Lupulin.

Refer to Elixir of Lupulin and its combinations.

# Elixir of Sodium Hypophosphite.

Refer to Elixir of Hypophosphite of Sodium.

Other elixirs containing sodium hypophosphite may be found with Elixir of Calcium Hypophosphite and its combinations, and with Elixirs of the Hypophosphites.

# Elixir of Sodium Salicylate.

Sodium salicylate......gr. 640 Aromatic elixir, enough to make fl. oz. 16

Dissolve the sodium salicylate in elixir, by agitation, and filter, if necessary.

Each fluidram contains 5 gr. of sodium salicylate.—N. F.

# Elixir of Sodium Salicylate with Cascara Sagrada.

Refer to Elixir of Cascara Sagrada and its combinations.

# Elixir, Simple.

By a simple elixir is commonly understood a flavored and sweetened dilute alcohol, intended as a vehicle for medicinal remedies, the flavoring agent being a volatile oil or combination of oils. The term may, however, include all such elixirs as are employed as vehicles, although these may be something more than a flavored and sweetened dilute alcohol.

If the second definition holds good, then the following elixirs, which have already been mentioned, will come under the head of simple elixirs: Elixir of orange, elixir of cherries, aromatic elixir, compound elixir of taraxacum, elixir de Garus, elixir of anise and adjuvant elixir.

# PHARMACEUTICAL PREPARATIONS.

Whenever simple elixir is mentioned, as an ingredient of a preparation in this formulary, some one of the elixirs that are prepared by simply flavoring and sweetening dilute alcohol should be selected, such a one was will best disguise the taste of the medicament; at times it will, of course, be found necessary or advantageous to employ one of the others, like compound elixir of taraxacum, elixir of cherries, etc. In case there be no preference whatever, the aromatic elixir of the pharmacopœia should be used.

It is suggested that a finer product will always be obtained by using deodorized alcohol instead of ordinary alcohol; also that no volatile oil be used which is not only perfectly pure, but also perfectly fresh.

Formulas for making other simple elixirs are the following:

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Oil of orangefl.dr.	+
Oil of cinnamon, drops	5
Oil of anisedrops	2
Oil of bitter almonddrops	1
Tincture of cardamomfl.dr.	5
Alcohol	1634
Waterfl.oz.	36
Sugarav.oz.	26
Cacao (Baker's)gr.	240
Magnesium carbonategr.	

Mix the oils, tincture and alcohol, and triturate with the cacao and magnesium carbonate, having first mixed the latter intimately; transfer them ixture to a bottle, add the water gradually, agitate occasionally for several hours, filter, express the filter between muslin, filter the expressed liquid, mix the two filtrates, in the liquid dissolve the sugar by agitation, and filter or strain as may be necessary.

## II.

Oil of orange (fresh)m.	48
Oil of lemondrops	12
Oil of corianderdrops	3
Tincture of vanillafl.oz.	1
Tincture cardamomfl.oz.	1
Powdered chocolate (Baker's)gr.	480
Alcoholfl oz.	16
Simple syrupfl.oz.	
Water (filtered through char-	
coal) enough to make fl.oz.	64

Dissolve the oils in 4 fluidounces of alcomainder of the alcohol, and shake well. Dis- and filter.

solve the chocolate in 3 fluidounces of hot water, add the syrup, shake well, add the tinctures of cardamom and vanilla, and enough water to make 64 fluidounces. Filter through paper, on which about 1 av. ounce of talcum has been distributed; return the first part until the filtrate is clear.

# III.

Oil of prangem.	70
Alcoholfl.oz,	274
Purified talcumgr.	120
Orange flower waterfl.oz.	181
Simple syrup fl.oz.	181

Mix the oil and alcohol, add the talcum, shake well, add the other ingredients, shake again, and filter.

# IV.

V.

Tincture of fresh orange peel. fl.oz. 12
Tincture of fresh lemon peelfl.oz. 4
Alcohol fl.oz. 8
Orange flower water fl.oz. 8
Purified talcumav.oz. 2
Simple syrup

Mix the whole well and filter.

This and the preceding have been known as elixir of orange.

Oil of sweet orangefl.oz.	11
Oil of carawaydrops	20
Alcoholfl.oz.	141
Spirit of cinnamondrops	32
Simple syrupfl.oz.	36
Glycerinfl.oz.	
Distilled water fl.oz.	
Calcium phosphate av.oz.	11

Mix the oils and alcohol, add the calcium . phosphate, shake well, add the other ingredients, shake again, and filter.

# VI.

Oil of orangefi.dr.	21
Oil of Ceylon cinnamondrops	3
Oil of anisedrops	3
Oil of caraway drops	6
Tincture of vanillafl.dr.	
Simple syrupfl.oz.	
Sherry winefl.oz.	
Alcoholfl.oz.	
Waterfl.oz.	
Purified talcumav.oz.	1

Mix the oils with the talcum; mix the alcohol, wine and water, add to the mixture of talcum and oils, then add the vanilla and the hol, add 12 fluidounces water and the re- syrup; let stand one hour, shaking often,

75

11.	
Soluble saccharingr. 24	
Oil of anisem. 160	
Alcoholfl.oz. 16	
Distilled water, enough to make fl.oz. 64	

Dissolve the saccharin in 40 fluidounces of water, add the oil of anise, previously dissolved in 16 fluidounces of alcohol, and the remainder of the water. Add 1 av.ounce of purified talcum; let stand 24 hours, occasionally shaking, and filter.

VIII.

Cinnamon waterfl.oz. 2	4
Simple syrupfl.oz. 2	
Alcoholfl.oz. 1	
Spirit of orangefl.oz.	

This may be clarified by shaking with paper pulp or purified talcum, and filtering. The pulp can be made by beating  $\frac{1}{2}$  av.ounce filter paper in a mortar with sufficient water just to moisten it.

# IX.

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2

Percolate the aromatics, previously reduced to coarse powder, with diluted alcohol previously mixed with the oil of orange, continuing the percolation until 32 fluidounces of aromatic tincture are obtained, and mix with the syrup, filtering through talcum, if necessary.

X.Oil of sweet orange	fl.dr.	2
Oil of caraway	.fl.dr.	1
Oil of coriander	<b>m.</b>	40
Oil of cassia	<b>m</b> .	40
Alcohol	.fl.oz.	16
Water	.fl.oz.	36
Sugar	.fl.oz.	18
Purified talcum	av.oz.	1

Mix the oils with the alcohol, add the water and sugar, shake till latter is dissolved, add the talcum, shake again, and filter. XI.

Oil of orange	fl.dr. 1
Oil of Ceylon cinnamon	
Alcohol	fl.oz. 12
Simple syrup	fl.oz. 25
Distilled water	fl.oz. 27
Dissolve the oils in the ale	cohol, add th

syrup to this solution until a milkiness or nine valerianate.—N. F.

slight precipitation of oil is produced, then pour the mixture into the remaining syrup, constantly stirring during the whole process and filter, using paper pulp or purified talcum, if necessary, to clarify.

# XII.

Orange flower water	fl.oz.	32
Bitter almond water	fl.oz.	8
Simple syrup	fl.oz.	8
Glycerin.	fl.oz.	8
Alcohol		

Mix all and filter through purified talcum.

# Elixir of Stillingia.

Fluid extract of stillingiafl.oz.	2
Alcohoifl.dr.	4
Simple elixir, enough to makefl.oz.	16

Mix the fluid extract and alcohol, add the elixir, and filter through purified talcum.

Each fluidram represents 74 gr. of stillingia.

# Elixir of Stillingia, Compound. I.

Compound fluid	extract of stil-	
	fl.oz.	
Aromatic elixir.	fl.oz.	12

Mix them, allow the mixture to stand a few days, or longer, if convenient, and filter.

Each fluidram represents 15 m. of compound fluid extract of stillingia.—N. F.

# II.

Compound fluid extract of stil-	
lingia fl.oz.	2
Alcohol fl.oz.	2
Compound elixir of taraxacumfl.oz.	2
Simple elixirfl.oz.	

Mix the fluid extract and alcohol, add the elixirs, and filter through talcum.

# Elixir of Strychnine Valerianate.

Strychnine valerianate	gr.	11
Acetic acid	.sufficie	ent
Tincture of vanilla	.fl.dr.	2
Compound tincture of cudbear	fl.dr.	2
Aromatic elixir, enough to make	:.fl.oz.	16

Triturate the strychnine valerianate with about 1 fluidounce of aromatic elixir, gradually added, and effect complete solution by the addition of 1 or more drops of acetic acid, avoiding an excess. Then add the tinctures, and lastly, the remainder of the aromatic elixir. Filter, if necessary.

Each fluidram contains 1-100 gr. of strychnine valerianate.—N. F.

# VII.

Elixir of Sumbul. (Elixir of Musk Root.)

Fluid extract of sumbulfl.oz.	2‡
Alcoholfl.oz.	1
Adjuvant elixir fl.oz.	124
Purified talcumav.oz.	

Triturate the fluid extract with the talcum, add the alcohol and elixir, and filter.

Each fluidram represents about 10 gr. of sumbul.

# Elixir of Sumbul, Compound.

# I.

Fluid extract of sumbulfl.oz.	2
Fluid extract of scullcapfl.dr.	4
Fluid extract of valerianfl.dr.	1
Alcoholfl.oz.	1
Adjuvant elixir, enough to make.fl.oz.	16
Purified talcumav.oz.	4

Mix the fluid extracts and alcohol, add the talcum, shake well, then add the elixir, shake again, and filter.

Each fluidram represents  $7\frac{1}{2}$  gr. of sumbul, about 2 gr. of scullcap, and about  $\frac{1}{2}$  gr. of valerian.

# II.

Fluid extract of sumbulfl.oz. 2	2
Alcohol fl.oz. 1	L
Elixir of ammonium valerianate. fl.oz. 8	3
Simple elixirfl.oz. 5	5

Mix the fluid extract and alcohol, add the two elixirs, and filter through talcum.

Each fluidram contains 1 gr. of ammonium valerianate and represents 71 gr. of sumbul.

These two mixtures are quite dissimilar, but both are dispensed under the name "compound tincture of sumbul."

# Elixir of Sumbul and Ammonium Valerianate.

Refer to Elixir of Ammonium Valerianate and its combinations.

By way of comparison, refer also to the formula immediately preceding.

# Elixir of Tar.

Glycerite	of tar	fl.oz.	4 ·
Elixir of	cherries	fl.oz.	12

Each fluidram represents nearly 1 gr. of tar.

# Elixir of Tar, Compound.

Syrup of wild cherry	fl.oz.	31
Syrup of tolu	fl.oz.	-3Ĵ
Morphine sulphate	gr.	2]
Methylic alcohol	fl.dr.	6
Distilled water, hot	fl.dr.	1
Wine of tar, enough to make.	. fl.oz,	16

Dissolve the morphine sulphate in the water, add the solution to the two syrups previously mixed, then add the methylic alcohol and the wine of tar.

Each fluidram contains 1-50 gr. of morphine sulphate.—N. F.

Most of the methyl alcohol of the market is very impure; the above requires an absolutely pure article.

# Elixir of Tar with Calcium and Sodium Hypophosphites.

Refer to Elixir of Calcium Hypophosphite and its combinations.

# Elixir of Terpin Hydrate.

Terpin hydrategr.	128
Glycerinfl.oz.	
Alcoholfl.oz.	2
Simple elixir, enough to make.fl.oz.	16

Each fluidram contains 1 gr. of terpin hydrate.

# Elixirs Containing Valerianate of Ammonium.

All elixirs containing valerianate of ammonium may be found under the head of Elixir of Ammonium Valerianate.

# Elixir of Valerianate of Iron.

Refer for this to Elixir of Iron combinations.

# Elixir of Valerianates of Iron, Quinine and Zinc.—(Elixir of Triple Valerianates.)

Iron valerianategr. 64	
Quinine valerianategr. 64	Ł
Zinc valerianategr. 64	£
Tincture of cudbearfl.dr. 2	
Valerianic acidsufficient	
Simple elixir, enough to makefl.oz. 16	

Triturate the 3 valerianates with 8 fluidounces of elixir to a smooth paste, add, if necessary, a very small amount of the acid, just enough to dissolve the salts, then add the tincture and the remainder of the elixir, and filter.

If too much valerianic acid has been added so that it is betrayed by its odor, it should be exactly neutralized by stirring with a glass rod repeatedly dipped in dilute ammonia water.

Each fluidram contains ½ gr. each of the valerianates of iron, quinine and zinc.

Elixir of Valerianate of Morphine.	Elixir of Wahoo and Blue Flag.
Refer to the Elixirs of Morphine combina- tions.	Refer to Elixir of Blue Flag and its com- binations.
Elixir of Valerianate of Quinine.	Elixir of Wild Cherry.
Elixir of Valerianate of Quinine and Strychnine.	Fluid extract of wild cherryfl.oz.       4         Alcohol
Refer to Elixir of Quinine and its combi- nations.	Mix, allow to stand for 24 hours, and filter through purified talcum. Each fluidram represents 15 gr. of wild
Elixir of Valerianate of Zinc. Zinc valerianategr. 128 Stronger solution of ammonium citratefl.dr. 121 Alcoholfl.dr. 121 Compound tincture of cudbear.fl.dr. 2 Aromatic elixir, enough to make fl.oz. 16	cherry. Elixir of Wild Cherry and Iron. Refer to Elixir of Iron and its combina- tions. Elixir of Yerba Santa. (Elixir of Erio- dictyon.)
Mix the stronger solution of ammonium citrate with 4 fluidounces of aromatic elixir and the alcohol, and triturate the zinc vale- rianate with this mixture, added gradually	Pumice stone, powderedav.oz. 1 Alcoholfl.oz. 1 Simple elixir, enough to make. fl.oz. 16
and in portions, until solution has been effected. Then add the spirit tincture, and the remainder of the aromatic elixir. Allow the mixture to stand a few days, and filter. Each fluidram contains 1 gr. of zinc vale- rianate.—N. F.	stone until well mixed, add the alcohol, mix again, then add 13 fluidounces of elixir, mix once more, let the whole stand for several hours, stirring occasionally, then filter, re- turning the first portions of filtrate to the
Elixir of Wafer Ash. (Elixir of Ptelea.) Fluid extract of wafer ashfl.oz. 234 Simple elixir, enough to makefl.oz. 16	until the filtrate measures the requisite amount.
Mix, and allow to stand for about 24 hours, then filter through purified talcum. Each fluidram represents 10 gr. of wafer	santa.
ash.	(Elixir Corrigens.)
Elixir of Wafer Ash, Bismuth and Pepsin. Refer to Elixir of Bismuth and its combi- nations.	Fluid extract of yerba santafl.oz. 1 Simple syrupfl.oz. 8
Elixir of Wafer Ash and Pepsin. Refer to Elixir of Pepsin and its combina-	enough to makefl.oz. 16
tions.	taraxacum with the syrup and pumice, then
Elixir of Wahoo. (Elixir of Euonymus.) Fluid extract of wahoofl.oz. 21 Waterfl.oz. 2 Syrup of coffeefl.oz. 2 Compound elixir of taraxacumfl.oz. 91	add the fluid extract, and mix the whole thoroughly by agitation. Shake the mixture occasionally during 2 hours, then allow it to settle, and carefully decant the liquid into a funnel, the neck of which contains a small
Mix them, let the mixture stand 48 hours, and filter.	pellet of absorbent cotton. Afterwards add the dregs and allow them to drain. To the
Each fluidram represents about 94 gr. of wahooN. F.	

Let the mixture stand at rest during 12 hours, if convenient, then decant the liquid and filter it through paper. To the filtrate add enough compound elixir of taraxacum, if necessary, to make 16 fluidounces.—N. F. 11. Yerba santa, coarse powdergr. 360 Sweet orange peel, recently dried and in coarse powdergr. 120 Liquor potassafl.dr. 1 Oil of clovesdrops 4 Oil of cinnamondrops 4 Oil of corianderdrops 1 Compound tincture of carda- momfl.dr. 1 Sugarav.oz. 7 Glycerin, Water, Alcoholof each, sufficient Mix the oils and tincture with the drugs and extract by percolation in the usual way,	Mix the fluid extracts, triturate with pum- ice stone, add 13 fluidounces of simple elixir, mix again, allow the whole to stand for several hours, stirring occasionally, and filter. Each fluidram represents nearly 4 gr. each of yerba santa and grindelia. Elixir of Zinc Bromide. Refer to the Elixirs of the Bromides. Elixir of Zinc, Iron and Quinine Valorianate. Refer for the above to the Elixirs of Va- leriantes. Emulsion of Almond. (Emulsion Amygdalæ.—Emulsio Amyg- dalarum Saccharata.—Almond Milk.—Mis- tura Amygdalæ.—Simple Emulsion.) I.
employing as a menstruum a mixture of 1	Sweet almondav.oz 1
	A . C

employing as a menstruum a mixture of 1 part of alcohol, 1 of glycerin, and 3 of water, all by measure, with 1 per cent of liquor potassa, 10 fluidounces of percolate are to be obtained, which is to be returned to the percolator if not clear; to this add the remainder of the liquor potassa and 2 fluidounces of alcohol, and in the whole dissolve the sugar by agitation.

III.

Yerba santa	: av.oz. 1
Sweet orange peel	gr. 144
Cardamom (without c	
Cloves	gr. 28
Cinnamon	
Anise	gr. 20
Coriander	
Caraway	
Red saunders	
Sugar	av. oz. 7
Alcohol,	
Glycerin	
Distilled water	of each sufficient

Distilled water.....of each, sufficient

Mix the drugs, reduce to moderately coarse powder, extract by percolation with a menstruum composed of 1 part of alcohol, 1 of glycerin, and 3 of water, all by measure, until 12 fluidounces of percolate are obtained; in the latter, dissolve the sugar by agitation, and filter.

# Elixir of Yerba Santa, Compound.

Fluid extract of yerba santafl.oz.	1
Fluid extract of grindeliafl.oz.	
Alcohol	
Pumice stone, powderedav.oz.	1
Simple elixir, enough to makefl.oz.	16

Sweet almondav.oz	1
Acacia, fine powdergr.	72
Sugargr.	220
Distilled water, sufficient to	
makefl.oz.	16

Blanch the almonds with hot water, add the acacia and sugar, beat them in a mortar until thoroughly mixed, rub this mixture with 14 fluidounces of the water, gradually added, until a uniform mixture results, strain, and wash mortar and strainer with the remainder of the water.-U. S. P.

II.

Sweet almondgr.	360
Sugargr.	360
Distilled waterfl.oz.	16

Blanch almonds iu the usual way, triturate with a little sugar, then with a little water gradually added, then slowly add the remainder of the water, mix well, strain with expression, and in the colature dissolve the remaiuder of the sugar.-Codex. III.

Sweet almonds											.av.oz. 1¾
Sugar	• •	 •	•	•		•	•	•		•	av. oz. 134
Sugar Distilled water	•	 •	•	•	• •	• •	•	•	•	•	sufficieut

From the almond prepare au emulsion in the usual manner, so as to obtain 15 fluidounces of emulsion, and in this dissolve the sugar.-Germ. Form.

IV. Prepare like III, however triturating the almond to fine powder with 1 av. oz. of sugar, the remainder of the sugar to be dissolved in the colature.-Austr. Phar.

T

The following is also called "emulsion of almond," but is also known as look album, white linctus, or white drink:

Sweet almondav.oz.	31
Bitter almond gr.	90
Sugar, granulatedav. oz.	
Tragacanth, fine powdergr.	24
Orange flower waterfl.dr.	9
Distilled waterfl.oz.	12

Make an emulsion with the almonds, 4 fluidounces of water, and nearly the whole of the sugar, and strain. Triturate the tragacanth with the rest of the sugar, then add small portion of the emulsion, and triturate briskly and for a long time, until well mixed; then add the remainder of the emulsion in small portions, while continuing the trituration, and finally add the orange flower water.

# Emulsion of Almond, Compound. (Compound Almond Milk.)

Sweet almond, blanchedav.oz	11
Henbane seedgr.	144
Calcined magnesiagr.	144
Sugar, moderately fine powd., av. oz.	11
Bitter almond waterfl.oz.	1 <del>i</del>
Waterfl.oz.	13 <u>i</u>

From the sweet almond and henbane seeds. prepare an emulsion with the water, strain. add the bitter almond water, mix the magnesia and sugar, mix this emulsion, and shake until the sugar is dissolved.-Germ. Form.

# Emulsion of Almond Oil.

(Oil Emulsion.—Emulsio Oleosa.)

The following is generally dispensed as simple emulsion:

Sweet almond oilfl.oz	1 3
Gum arabic, powdergr.	360
Distilled waterfl.oz.	13,4

Make an emulsion in the usual manner.-Germ. Pharm.

# Emulsion, Camphorated.

(Emulsio Camphorata.)

L	٠

Camphorgr. Acacia powdergr.	$\frac{15}{72}$
Sugarav.oz. Emulsion of almondsfl.oz.	14
Alcoholfl.dr.	

Add the alcohol to the camphor contained in a mortar and reduce to fine powder; now idd the acacia, and then the sugar, finally

the emulsion of almonds, and mix the wh well.-H.

II.	
Sweet almondav.oz	1)
Sugarav.oz.	1)
Camphor water	14

Blanch the almond, make into an emulsion with the water, strain, and in the colature dissolve the sugar.-D.

### Emulsion of Monobromated Camphor.

Monobromated Camphorgr.	
Sweet almond oil	21
Gum arabic, powdergr.	225
Distilled watersuffic	cient

Dissolve the camphor compound in the oil, add the gum, and  $2\frac{1}{2}$  fluidounces of water, triturate until an emulsion is formed. and then add enough water to make 16 fluidounces.-D.

# Emulsion of Castor Oil.

Castor oilav.oz.	51
Acacia, fine powdergr.	$585^{-}$
Tincture of vanijlafl.dr.	3
Simple syrupfl.oz.	
Watersuffic	

Carefully weigh the castor oil and the acacia into a mortar, triturate until well mixed; then add 2 fluidounces of water all at once to the mixture of oil and acacia, triturating briskly until a thick, creamy emulsion is produced. To this add gradually with stirring, a mixture of the syrup and tincture with a portion of the remaining water, and finally enough water to make 16 fluidounces. -N. F.

II.	
Castor oilfl.oz.	11
Egg yolkfl.oz.	2
Syrupfl.oz.	
Oil of cassiafl.dr.	1

Beat the yelk thoroughly in a mortar, add the two oils, triturate until emulsified, and finally add the syrup.

# Emulsion of Cod Liver Oil.

Emulsions of fixed oils may be prepared by the use of a number of emulsifying agents, such as acacia, tragacanth, extract of malt, yolk of egg, glycerite of yolk of egg, condensed milk, mucilage of Irish moss, tincture of quillaja, and dextrin.

In preparing an emulsion of cod liver oil,

II.

any of these may be employed; The National Formulary recognizes five emulsions of cod liver oil made with mucilage of Irish moss, acacia, glycerite of yolk of egg, tincture of quil-Laja, tragacanth, and dextrin mucilage. These mulsions may be plain; that is, may consist simply of oil, emulsifier, water, sugar and Ravoring, or they may be combined with Other agents, such as hypophosphites, phos-Dhates, lactophosphates, phosphorus creosote, etc., or perhaps with two or more such agents. The method adopted in incorporating these medicaments varies according to its character; if it be soluble in the oil, it is added to the latter before emulsifying, and if soluble in water it is dissolved in the latter before it is added to the mixture of gum and Should, however, the substance not be •oil. soluble in either the oil or water, then other methods still must be adopted; if it be solid in character, it should be triturated to a very fine powder and be added to the emulsion; if it be an alcoholic liquid, like tincture of benzoin or spirit of nitrous ether, it is generally best to add it to the emulsion after all the water has been added.

Emulsions of cod liver oil usually require flavoring, and this consists most frequently in the addition of a volatile, like cassia, wintergreen, bitter almonds, sassafras, etc, which should be added to the cod liver oil, or it may consist of a flavored syrup like syrup of tolu, which should be incorporated with the emulsion after most of the water has been No objection can be made to using added. two or three flavoring agents.

The emulsions given here are made with the use of different emulsifying agents and different flavoring agents, but no one need be restricted to the use of such of either as may be mentioned.

I.

Cod liver oil	. fl. oz.	8
Acacia	.av.oz.	-21
Syrup of tolu	.fl.dr.	
Flavoring (of any desired kind	)'	
Water, of each,	suffici	ent

Triturate the oil and acacia together in a mortar, add 3 fluidounces of water all at once to the mixture of oil and acacia, triturating

the syrup of tolu, and enough water to make 16 fluidounces of finished emulsion.-N.F. (preferred formula.)

Cod liver oil	fl.oz. 8
Condensed milk, thick	
Oil of sassafras	
Oil of wintergreen	drops 10
Oil of bitter almond	drops 2
Glycerin	fl.oz. 1
Water, enough to make	

Add the cod liver oil gradually to the condensed milk, then incorporate the other oils, 1 fluidounce of water, the glycerin, and the remainder of the water.

111.	
Cod liver oilfl.oz.	8
Yolk of two eggs.	
Tragacanth, powderedgr.	
Elixir of saccharin	
Tincture of benzoinfl.dr.	1
Spirit of chloroformfl.dr.	4
Oil of bitter almonddrops	8
Distilled water, enough to make fl. oz.	16

Measure 5 fluidounces of distilled water. place the powdered tragcanth in a dry mortar, and triturate with a little of the cod liver oil; then add the yolks of eggs and stir briskly, adding water as the mixture thickens. When of a suitable consistence, add the remainder of the oil and water alternately, with constant stirring, avoiding frothing. Transfer to a pint bottle, add the elixir of saccharin, tincture of benzoin, spirit of chloroform, and oil of almonds, previously mixed, shake well, and add distilled water, if necessary, to make 16 fluidounces.-Brit. Form.

Instead of the elixir of saccharin, the liquor saccharini of the National Formulary may be employed.

IV.

The emulsions of cod liver oil with malt extract are considered under the head of Extract of Malt and its combinations.

# Emulsion of Cod Liver Oil, Stronger,

Cod liver oilfl.oz.	8
Acacia, fine powderav.oz.	1 3
Glycerinfl.oz.	1
Sugargr.	480
Water, enough to makefl.oz.	14

Mix the acacia with 2 fluidounces of water. briskly until a thick, creamy emulsion is and make an emulsion with this and 6 fluidproduced. To this add the desired flavoring, ounces of oil. Now add the sugar and af terwards incorporate with this emulsion alternate portions of the glycerin and the remainder of the water and oil.

This is a stock emulsion (without flavor) to be used for preparing the usual 50 per cent simple emulsion of cod liver oil, or compound emulsions containing such additions as may be desired.

It is advisable to keep this emulsion in the bottles in which the emulsions are usually dispensed, 7 fluidounces in an 8-ounce bottle, 14 fluidounces in a 16-ounce bottle, etc. Whenever an emulsion of cod liver oil, simple compound, is wanted it can then frequently be prepared by simple addition of the requisite ingredients.

# Emulsion of Cod Liver Oil with Coca.

# I.

Stronger emulsion of cod liver oil fl.oz. 1	4
Elixir of cocafl.oz.	2
Oil of clovesdrops 2	

Each half fluidounce represents nearly 4 gr. of coca.

## II.

Prepare an emulsion like any of those mentioned under Emulsion of Cod Liver Oil, replacing 2 fluidounces of water by elixir of coca.

# Emulsion of Cod Liver Oil with Creosote and Hypophosphites.

Cod liver oilfl.oz.	8
Creoste, purefl.dr.	11
Acacia powderav.oz	2Į
Glycerin fl.oz.	1
Syrup of orangefl.dr.	4
Calcium hypophosphitegr.	128
Sodium hypophosphitegr.	128
Oil of wintergreenfl.dr.	4
Oil of sassafrasfl.dr.	1
Oil of cinnamonfl.dr.	1
Distilled water, enough to make fl.oz.	16

Mix the cod liver oil, creosote, and essential oils, with the acacia, in a dry mortar; dissolve the hypophosphites in 3 fluidounces of warm water, pour the solution, all at once, into the mixture of oils, creosote, and acacia, and stir briskly in one direction with the pestle until emulsification takes place; then add the glycerin, syrup, and enough water to make 16 fluidounces, and strain through a cloth.

Emulsion of Cod Liver Oil with Hypophosphites.

Cod liver oilfl.oz.	8
Acacia, fine powderav.oz.	21
Soluble hypophosphite, (calcium,	•
sodium, or potassium)gr.	128
Syrup of tolufl.oz.	11
Flavoring (whatever kind may	
be desired),	
Waterof each, suffic	ient

Emulsify the oil with the acacia and 3 fluidounces of water, and add the flavoring. Then dissolve the hypophosphite in sufficient water, mix this solution with the syrup, and add the mixture gradually to the emulsified oil; lastly, add enough water to make 16 fluidounces, and mix the whole thoroughly.

If several hypophosphites are required, equal parts of them may be used, amounting altogether to 128 gr. for the above formula. Varying quantities, larger or smaller than the above, may, of course, be used upon prescription.—N. F.

 II.
 Calcium hypophosphite......gr. 64

 Sodium hypophosphite.....gr. 64
 Potassium hypophosphite.....gr. 32

 Water, hot......floz. 2
 Stronger emulsion of cod liver oil fl.oz. 14

Dissolve the hypophosphites in the water and add to the emulsion. Flavor as desired.

Instead of the stronger emulsion in this formula, a 50 per cent emulsion may be used. Or the simple emulsion may be prepared in any desired manner, dissolving the hypophosphites in a portion of the water.

# Emulsion of Cod Liver Oil with Hypophosphite of Calcium.

Prepare like any of the preceding, using 128 gr. of calcium hypophosphite to every 16 fluidounces of emulsion.

# Emulsion of Cod Liver Oil with Lactophosphate of Calcium.

Cod liver oilfl.oz.	8
Acacia, fine powderav.oz.	
Calcium lactategr.	256
Phosphoric acid (U. S. P., 85	
per cent)fl.dr.	1+
Syrup of tolufl.oz.	1 <u>1</u>
Flavoring (of any desired kind),	
Waterof each, suffic	cient

Emulsify the oil with the acacia, and 3

fluidounces of water, and add the flavoring. Then dissolve the calcium lactate in 1 fluidounce of water with the aid of the phosphoric acid, add the solution gradually to the emulsified oil, then the syrup, and lastly enough water to make 16 fluidounces. Mix the whole thoroughly.

This emulsion should be freshly prepared when dispensed.-N. F.

# Emulsion of Cod Liver Oil with Malt Extract.

Refer for this to Extract of Malt and its combinations.

# Emulsion of Cod Liver Oil with Phosphate of Calcium.

Cod liver oil.....fl.oz. 8 Acacia, fine powder.....av.oz. 21 Calcium phosphate.....gr. 256 Syrup of tolu, Flavoring (of any desired kind), Water ..... of each, sufficient

Emulsify the oil with the acacia, and 3 fluidounces of water, and add the flavoring. Then triturate the calcium phosphate with the syrup and a portion of the remaining water, add the mixture gradually to the emulsified oil, and lastly, enough water to make 16 fluidounces. Mix the whole thoroughly.-N. F.

# Emulsion of Cod Liver Oil with Phosphates of Calcium and Sodium.

Cod liver oilfl.oz	. 8
Acacia, fine powderav.oz	. 21
Calcium phosphategr	. 128
Sodium phosphategr	. 128
Syrup of tolufl.oz	
Flavoring (of any desired kind)	-
Water of each, suffi	cient

Emulsify the oil with the acacia, and 3 fluidounces of water, and add the flavoring. Then triturate the salts to a fine powder, incorporate with the syrup and a portion of the remaining water, and triturate with the emulsified oil. Finally, add enough water to make 16 fluidounces, and mix the whole thoroughly together.--N. F.

# Emulsion of Cod Liver Oil with Phosphate of Sodium.

Every 16 fluidounces should contain 128 gr. of sodium phosphate. This should be add 3 fluidounces of water, triturate until dissolved in 2 fluidounces of water which may be added to 14 fluidounces of either simple | remainder of the syrup and mix well.

or stronger emulsion of cod liver oil, or the solution may be incorporated during the process of emulsification in making an emulsion of cod liver oil.

# Emulsion of Cod Liver Oil, Phosphorated. (Phosphatic Emulsion .--Phosphatic Mixture.)

Cod liver oilfl.oz	. 4
Glycerite of yolk of egg (U.	
S. P.)av.oz	. 3
Diluted phosphoric acidfl.dr	. 6
Oil of bitter almonddrops	
Rum, Jamaicafl.oz	
Orange flower water, enough	
to makefl.oz	. 16

To the glycerite of yolk of egg contained in a suitable bottle, gradually add the cod liver oil, in small portions at a time, shaking after each addition, until the added portion is emulsified. Then gradually add the phosphoric acid, rum and oil of bitter almond, incorporating them thoroughly. Finally, add the orange flower water and mix the whole thoroughly.

# Emulsion of Cod Liver Oil with Wild Cherry.

Cod liver oilfl.oz. 8	
Acacia, fine powderav.oz. 24	
Fluid extract of wild cherryfl.oz. 1	
Syrup of tolufl.oz. $1\frac{1}{2}$	
Flavoring (of any desired kind),	
Water of each, sufficient	

Emulsify the oil with the acacia and 3 fluidounces of water, and add the flavoring. Mix the fluid extract and syrup with a portion of the remaining water, and add the mixture gradually to the emulsified oil. Lastly, add enough water to make 16 fluidounces and mix the whole thoroughly .-- N. F.

# Emulsion of Linseed Oil, Dr. Thomson's.

Linseed oilfl.oz.	31
Oil of wintergreen fl.dr.	- į
Oil of cinnamonfl.dr.	- Ē
Acacia, powderav.oz.	2
Waterfl.oz.	6
Glycerinfl.oz.	11
Simple syrupfl.oz.	21
Hydrocyanic acid, dilutem.	40

Triturate the mixed oils with the acacia, emulsified, add the syrup, glycerin, acid, and

ted Emulsion.)	Salicylica.)
Phosphorated oil       fl.dr.       7         Acacia, powder       gr.       240         Distilled water       fl.dr.       5         Peppermint water       fl.oz       18         Simple syrup       fl.dr.       10         Mix the oil and gum in a dry mortar, emul-	Salicylic acid
sify by addition of the water, then add the	Mix the salicylic acid and oil, add the
peppermint water and the syrup, and mix	gum, and to this mixture add all the orange
well.—D.	flower water, stirring briskly until emulsifi-
Each fluidram represents about 1-30 gr. of	cation is complete; then add the water and
phosphorus.	finally the syrup.—D.
Emulsion of Paraffin Oil and Hypo-	This forms about a 2 per cent emulsion
phosphites. (Compound Emulsion of	of salicylic acid.
Liquid Petrolatum.)	Emulsion of Terpin Hydrate.
I.	Terpin hydrategr. 256
Paraffin oil (liquid petrolatum)fl.oz. 5 Acacia, powderav.oz. 2 Glycerinfl.oz. 1 Calcium hypophosphitegr. 96 Sodium hypophosphitegr. 96 Water, enough to makefl.oz. 16	Olive oilfl.oz. 4 Acacia, powderav.oz. 21 Syrup of cinnamonfl.oz. 4 Cinnamon water, enough to makefl.oz. 16
Acacia, powderav.oz. 2 Glycerinfl.oz. 1 Calcium hypophosphitegr. 96 Sodium hypophosphitegr. 96 Water, enough to makefl.oz. 16 Add the acacia to the oil and mix thor- oughly (in a large mortar), then add 5 fluid-	Olive oilfl.oz. 4 Acacia, powderav.oz. 21 Syrup of cinnamonfl.oz. 4 Cinnamon water, enough to makefl.oz. 16 Reduce the terpin hydrate (with the inter- vention of a little sugar, if necessary) to a fine powder, triturate first with the acacia
Acacia, powderav.oz. 2 Glycerinfl.oz. 1 Calcium hypophosphitegr. 96 Sodium hypophosphitegr. 96 Water, enough to makefl.oz. 16 Add the acacia to the oil and mix thor- oughly (in a large mortar), then add 5 fluid- ounces of water (all at once) and rub briskly	Olive oilfl.oz. 4 Acacia, powderav.oz. 21 Syrup of cinnamonfl.oz. 4 Cinnamon water, enough to makefl.oz. 16 Reduce the terpin hydrate (with the inter- vention of a little sugar, if necessary) to a fine powder, triturate first with the acacia and then with the oil, and then add, all at
Acacia, powderav.oz. 2 <sup>1</sup> / <sub>4</sub> Glycerinfl.oz. 1 <sup>1</sup> / <sub>4</sub> Calcium hypophosphitegr. 96 Sodium hypophosphitegr. 96 Water, enough to makefl.oz. 16 Add the acacia to the oil and mix thor- oughly (in a large mortar), then add 5 fluid- ounces of water (all at once) and rub briskly until the emulsion is formed. Dissolve the	Olive oilfl.oz. 4 Acacia, powderav.oz. 21 Syrup of cinnamonfl.oz. 4 Cinnamon water, enough to makefl.oz. 16 Reduce the terpin hydrate (with the inter- vention of a little sugar, if necessary) to a fine powder, triturate first with the acacia and then with the oil, and then add, all at once, 2 fluidounces of cinnamon water.
Acacia, powderav.oz. 2 <sup>1</sup> / <sub>4</sub> Glycerinfl.oz. 1 <sup>1</sup> / <sub>4</sub> Calcium hypophosphitegr. 96 Sodium hypophosphitegr. 96 Water, enough to makefl.oz. 16 Add the acacia to the oil and mix thor- oughly (in a large mortar), then add 5 fluid- ounces of water (all at once) and rub briskly until the emulsion is formed. Dissolve the hypophosphites in 3 fluidounces of water, to	Olive oilfl.oz. 4 Acacia, powderav.oz. 21 Syrup of cinnamonfl.oz. 4 Cinnamon water, enough to makefl.oz. 16 Reduce the terpin hydrate (with the inter- vention of a little sugar, if necessary) to a fine powder, triturate first with the acacia and then with the oil, and then add, all at once, 2 fluidounces of cinnamon water. When the emulsion is complete, incorporate
Acacia, powderav.oz. 2 <sup>1</sup> / <sub>4</sub> Glycerinfl.oz. 1 <sup>1</sup> / <sub>4</sub> Calcium hypophosphitegr. 96 Sodium hypophosphitegr. 96 Water, enough to makefl.oz. 16 Add the acacia to the oil and mix thor- oughly (in a large mortar), then add 5 fluid- ounces of water (all at once) and rub briskly until the emulsion is formed. Dissolve the	Olive oilfl.oz. 4 Acacia, powderav.oz. 21 Syrup of cinnamonfl.oz. 4 Cinnamon water, enough to makefl.oz. 16 Reduce the terpin hydrate (with the inter- vention of a little sugar, if necessary) to a fine powder, triturate first with the acacia and then with the oil, and then add, all at once, 2 fluidounces of cinnamon water.

Spermacetigr.	
Acacia, powdergr.	
Waterfl.oz.	
Simple syrupfl.oz.	3 <del>1</del>

Put the syrup and gum into a warm mortar, add the spermaceti and triturate with a warm pestle until united; then add the warm water gradually, and continue agitation or trituration until the whole is cold.

# Emulsion of Wax.

This may be prepared like the emulsion of spermaceti, substituting yellow wax for the spermaceti, or by the use of the following method:

Mucilage of acacia.....fl.oz. 5 Distilled water, warm.....fl.oz. 10

Melt the wax in a capacious mortar on a water bath or by any other suitable method, at the same time warming the pestle; to the wax add the mucilage, mix well until an emulsion is formed, then add the distilled water.-D.

Emulsion of Phosphorus.	(Phosphora-	Emulsion	of Salicylic Acid.	(Emulsion

# E

I

С C 11 ł ٦ e water necessary to make up the measure of | Emulsion of Spermaceti. 16 fluidounces of finished product.

II.

Liquid petrolatumfl.oz.	4
Oil of sweet almondsfl.oz.	2
Acacia, powderav.oz.	11/
Glycerinfl.oz.	
Sodium hypophosphitegr.	128
Calcium hypophosphitegr.	128
Lime waterfl.oz.	8

Mix all the oil and petrolatum and incorporate well with the gum, then add 3 fluidounces of the water all at once, stir briskly until an emulsion is formed; dissolve the hypophosphites in 3 fluidounces of the lime water, mix with the preceding liquid, and then add the glycerin.

These preparations may be flavored in any suitable manner.

# Emulsion of Resorcin.

Resorcin	gr. 80
Emulsion of almond	fl.oz. 134
Syrup of orange	fl.oz. 21
Dissolve the resorcin in the	emulsion and
add the syrup.—D.	

84

# Emulsion of Tolu Balsam.

Tolu balsamgr.	144
Alcoholfl.dr.	
Tincture of quillajafl.dr.	13
Distilled water, hotfl.oz.	

Dissolve the balsam in the alcohol, and add the tincture; then make an emulsion by adding the water gradually without constant agitation.—Codex.

# Essences, Flavoring.

Flavoring essences of various kinds, such as for soda water, other beverages and for culinary purposes may be found in Part VI.

# Essence of Pepsin.

I.

Pepsin, puregr.	128
Hydrochloric acid, dilutedrops.	
Aromatic elixirfl.oz.	3
Glycerinfl.oz.	1
Waterfl.oz.	6
Angelica wine, enough to make.fl.oz.	16

Mix all, agitate frequently until the pepsin is dissolved, and filter through purified talcum.

# Π.

Pepsin, puregr.	240
Hydrochloric acid, dilutefl.dr.	1
Glycerinfl.oz.	1
Simple syrupfl.oz.	2
Compound elixir of taraxacum.fl.oz.	1
Alcoholfl.oz.	2
Oil of clovesdrops	1
Waterenough to make.fl.oz.	16

Mix the pepsin, glycerin, acid and 8 fluidounces of water, agitate frequently until the pepsin is dissolved, then add the syrup, elixir, oil of cloves first dissolved in the alcohol, and the remainder of the water, and filter.

# III.

Pepsin, puregr.	64
Simple elixir (U. S. P.)fl.oz.	11
Glycerinfl.oz.	11
Catawba winefl.oz.	1
Angelica winefl.oz.	5
Waterenough to make.fl.oz.	

Mix, dissolve, and filter through calcium phosphate or purified talcum.

## IV.

Fresh calves' rennetav.oz	. 31
Glycerin	
Alcoholfl.dr.	
Tincture of fresh orange peel. fl.dr.	11
Waterfl.oz	. 11‡
Purified talcumav.oz	. 1

Mix the rennet and glycerin, then add the

alcohol, water and tincture of orange, and macerate for 4 or 5 days, with repeated agitation; add the talc, agitate and allow to stand for an hour, or until the talc has been largely deposited; now decant, on a muslin or flannel filter, the supernatant liquid first, and finally the dregs; then filter through paper. V.

Pepsin, puregr.	128
Glycerin	- 34
Oil of cinnamondrops	1
Oil of pimentodrops	1
Oil of clovesdrops	2
Hydrochloric acidm.	20
Purified talcumgr.	120
Alcohol fl.dr.	4
Sherry wine (good and light	
color)fl.oz.	31
Distilled water, enough to make fl.oz.	16

Mix the wine with the acid and 6 fluidounces of water; add to it the pepsin and shake until dissolved; the oils are added to the alcohol, triturated with the talc, the pepsin solution gradually added and filtered; return the first portions until the filtrate is perfectly bright, and pass the remainder of water through filter; when every portion has passed, add to the filtrate the glycerin.

# Essences, Perfume.

These may be found in Part V.

# Essence of Saccharin.

Saccharin	gr.	150
Distilled water		
Sodium carbonate or bicarbon-		
ate	suffic	ient
Brandy	fl.oz.	1

Mix the saccharin with 3 fluidounces of the water, add the sodium salt gradually in small amounts, stirring thoroughly after each addition, until the saccharin is dissolved, then add the remainder of the water and the brandy, and filter. Any excess of soda must be carefully avoided.

This can be used for sweetening preparations of one kind or another instead of elixir or solution of saccharin. It is especially useful in sweetening the tea, coffee and other beverages of diabetic persons.—D.

# Essence of Tamarinds.

Tamarind pulp, purifiedav.oz.	81
Alexandria senna (previously	
extracted with alcohol)av.oz.	11
Water, boilingfl.oz.	40
Infuse for 12 hours, then strain, pres	s the

marc, and evaporate the strained liquor by boiling to 19 av.ounces. Then take 111 fluidounces of the residue, neutralize with solution of soda, and add:

Alcohol	.fl.oz. 34
Simple syrup	.fl.oz. 1
Tincture of vanilla	.fl.dr. 1 <del>]</del>

# Etheroles.

These are a class of French preparations similar to the ethereal tinctures used to some extent in this country.

# Extract of Aloes, Fluid.

What is commonly sold under this name is made by dissolving 8 av.ounces of aloes in 16 fluidounces of diluted alcohol by the aid of a moderate heat, straining, and evaporating the colature to 16 fluidounces.

To make the official tincture of aloes, it is directed to mix  $1\frac{1}{2}$  fluidounces of the above, and 3 fluidounces of fluid extract of licorice with enough diluted alcohol to make 16 fluidounces.

# Extract of Aloes, Acid.

Aloes	4
Water, boilingfl.oz.	
Sulphuric acid, purefl.dr.	
Distilled water, coldfl.dr.	

Pour the boiling water upon the aloes, stir well, allow to cool, add the acid previously mixed with the cold distilled water, set aside for 24 hours, decant the clear liquid, and evaporate the decantate to dry extract.

The yield is about 40 per cent.

This preparation may be made from the dried aqueous extract, but it is more convenient to begin with the crude drug.—D.

# Extract of Aloes and Myrrh, Fluid,

This, like the fluid extract of aloes, is one of the "convenience" preparations put up by the large manufacturers. It may be prepared as follows:

Socotrine								
Myrrh	 	• •	 • •	• •			av. oz.	4 <u>1</u>
Alcohol.	 • •	•••	 •••	• •	•••	. sı	ufficier	it

Mix the drugs in coarse powder with 12 fluidounces of alcohol, macerate for 7 days in a warm place, occasionally agitating, then heat moderately on a water bath for 2 hours, strain through flannel, add through the strainer enough alcohol to make 16 fluidounces, and allow to cool.

To make the tincture of aloes and myrrh, the manufacturers direct that 5 fluidounces of this "fluid extract" be mixed with 11 fluidounces of alcohol. Inasmuch as the official preparation contains licorice, the tincture is not properly made unless 1½ fluidounces of the alcohol be replaced by fluid extract of licorice.

# Extract of Alstonia Constricta, Fluid.

(Fluid Extract of Australian Fever Bark.)

Extract the drug in fine powder by the use of alcohol as a menstruum, using the process of the pharmacopœia or the National Formulary or any other suitable process of making fluid extracts.

# Extract of Bamboo Brier, Compound Fluid. (Alterative Compound.—Mc-Dade's Compound.—Creek Indian Rem-

edy.-Mistura Smilacis Compositus.)

Bamboo brier rootav.oz. 4	
Stillingiaav.oz. 4	
Burdock rootav.oz. 4	
Poke rootav.oz. 4	
Prickly ash bark av.oz. 1	
Diluted alcoholsufficient	

Mix the drugs, reduce to fine powder, and extract, using diluted alcohol as a menstruum, by the process of the pharmacopæia, or the National Formulary or any other suitable process for fluid extracts, the product to measure 16 fluidounces.

# Extract of Benzoin, Compound Fluid.

Benzoinav.oz.	44
Storaxav.oz.	3
Tolu balsamav.oz.	
Aloesgr.	350
Alcoholsuffici	ent

Reduce the benzoin and aloes to coarse powder, add these and the tolu and storax to 12 fluidounces of alcohol contained in a closed vessel, digest the mixture, at a temperature not exceeding 65 degs. C., for 2 hours, then strain through flannel, and wash the residue and strainer with enough alcohol to make the colature measure 16 fluidounces.

This is another "convenience" preparation from which the compound tincture of benzoin is directed to be prepared by mixing 6 fluidounces with 10 fluidounces of alcohol.

# Extract of Benzoin, Fluid.

Benzoin, in coarse powder....av.oz. 81/2 

Mix the benzoin with 12 fluidounces of alcohol, macerate the mixture in a warm place, then heat on a water bath until quite warm, strain through flannel, and wash the dregs and strainer with enough alcohol to make the colature measure 16 fluidounces.

This is similar to the "convenience preparations put up by manufacturers. The tincture is directed to be prepared from it by mixing 6 fluidounces of it with 10 fluidounces of alcohol. It may also be used for making ben zoinated lard and for benzoinating other fats and fatty bodies.

# Extract of Berberis Aquifolium,

Fluid. (Fluid Extract of Oregon Grape.)

Reduce the drug to fine powder and extract by means of a mixture of alcohol and water in the proportion of 3 of the former to  $2 \circ f$  the latter, both by measure, using the process of the pharmacopœia, or the National Formulary, or any other suitable process for fuid extracts.

# Extract of Blackberry Boot Bark, Compound Fluid.

Blackberry root barka	v.oz.	12
Cinnamona	v.oz.	11
Nutmega	v.oz.	11
Clovesa	v.oz.	34
Allspicea	v.oz.	34
Diluted alcohols	uffici	ent

Mix the drugs, grind to fine powder, and extract, using diluted alcohol as a menstruum, by the process of the pharmacopœia, or National Formulary or any other suitable process for fluid extracts, the product to measure 16 fluidounces.

Other spices may be used instead of those in the above formula.

Such a preparation may be employed for making mild and pleasant carminative elixirs, syrups, "balsams," etc., for summer complaint, dysentery, etc. The above may be converted into the aromatic syrup of blackberry (N. F.) by mixing 1 fluidounce with 5 of diluted alcohol, 11 fluidounces of blackberry juice, and 16 av.ounces of sugar, agitating until dissolved and straining. A 2 of the latter, both by measure.

syrup without juice may be prepared by mixing 1 fluidounce of fluid extract, 5 of diluted alcohol and 20 of simple syrup.

## Extract of Bittersweet. (Extract of Dulcamara.)

Dulcamara, coarse powder....av.oz. 4 Distilled water.....fl.oz. 24

Mix the drug with 16 fluidounces of water, macerate for 24 hours, strain with expression, upon the residue pour 8 fluidounces of boiling distilled water, macerate for 1 hour, and strain and express once more. Mix the 2 colatures, add 2 drams or so of filter paper torn into shreds-scraps of filter paper from the cutting of filter papers may be usedand heat the liquid to boiling. Now skim the liquid, filter it through flannel, and evaporate to extract consistency.

A preparation that will keep better may be prepared by evaporating the strained liquid after boiling to rather soft extract, adding to the latter 2 fluidounces of alcohol, mixing well, allowing to stand for 48 hours, filtering and evaporating the filtrate to extract consistency.-D. modified.

# Extract of Black Cohosh, Compound Fluid.

Black cohoshav.oz. 8	3¥€
Wild cherryav.oz. 4	١ÿ.
Licorice	2X
Ipecac	Ľ
Senegaav.oz. 1	L
Diluted alcoholsufficien	t

Mix the drugs, reduce to fine powder, and extract, using diluted alcohol as a menstruum, by the process of the pharmacopœia or the National Formulary, or any other suitable process for fluid extracts, the product to measure 16 fluidounces.

# Extract of Bryony, Fluid.

Moisten 17<sup>1</sup>/<sub>2</sub> av.ounces (-16 troy oz.) of bryony in fine powder with 2 fluidounces of water. Allow to stand in a covered vessel for one hour, then mix intimately with 3 fluidounces of alcohol, let stand for another hour, then extract by the process of the pharmacopœia or the National Formulary, using a menstruum composed of alcohol and water in the proportion of 3 of the former to

# Extract of Buchu, Compound Fluid.

Buchuav.oz.	11
Cubebav.oz.	
Juniperav.oz.	21
Uva ursiav.oz.	21
Alcohol,	
Waterof each, sufficie	nt

Mix the drugs, reduce to moderately fine powder and extract by the usual process for fluid extracts so as to obtain 16 fluidounces, using a menstruum composed of 1 volume of water and 2 of alcohol.-N. F.

# Extract of Buchu, Juniper and Potassium Acetate. Compound.

······································	
Buchuav.oz. 1	31
Juniperav.oz.	8Į
Potassium acetate	1
Alcohol,	
Waterof each, sufficien	t

Mix the buchu and juniper, reduce them to tolerably fine powder, and extract by the process of the pharmacopæia or the National Formulary. The menstruum should consist of alcohol and water in the proportion of 2 of the former to 1 of the latter, both by meas-The percolate, after dissolving the poure. tassium acetate in it, should measure 16 fluidounces.

# Extract of Buchu and Pareira, Fluid.

Mix buchu leaves and cut pareira in equal parts, reduce to fine powder, and extract by the process of the pharmacopæia or the National Formulary, using as a menstruum a mixture of alcohol and water in the proportion of 2 of the former to 1 of the latter, both by measure.

# Extract of Buchu, Pareira and Uva Ursi, Fluid.

Make like the preceding, using 84 av. ounces of buchu and 44 av.ounces of each of pareira and uva ursi, the product to measure 16 fluidounces.

## Extract of Buckthorn. (Extract of Frangula.) I.

Frangula, moderately coarse powder.....av.oz. 

Mix the drug with 16 fluidounces of water, macerate for 24 hours, strain with expression, upon residue pour 8 fluidounces of boiling water, macerate again for 1 hour, strain usually a concentrated tincture, made from

and express, mix the two liquids, and evaporate to dryness.-D. II.

Buckthorn bark, coarse powder.av.oz. 8 Diluted alcohol.....fl.oz. 20 Distilled water.....sufficient

Mix the bark and diluted alcohol, macerate for 2 days, pack in a percolator, allow the liquid to drain, and then pass enough water through the drug to make the percolate measure 40 fluidounces. Evaporate this percolate on a water bath to thick extract consistency.-Brit. Pharm.

# Extract of Buckthorn, Bitterless Fluid. (Extractum Frangulae examaratæ fluidum.) Bitterless buckthorn bark ..... av. oz. 174 Alcohol.

Water.....of each, sufficient

Extract the bark by the process of the pharmacopœia, or the National Formulary, or any other suitable process for fluid extracts. The menstruum should consist of alcohol and water in the proportion of 3 of the former to 1 of the latter, both by measure, and the product should measure 16 fluidounces.--D.

Bitterless buckthorn bark is prepared by intimately mixing 10 av.ounces of buckthorn bark in very fine powder and 1 av.ounce of calcined magnesia with 20 fluidounces of water, allowing to stand for 12 hours, drying on a water bath with constant stirring, powdering again, and sifting.-D.

# Extract of Buckthorn, Palatable Fluid.

Fluid extract of buckthornfl.oz.	16
Ammoniated glycyrrhizin gr.	120
Saccharingr.	60
Solution of potassafl.dr.	2
Waterfl.oz.	2

Dissolve the saccharin and glycyrrhizin in the water to which has been added the solution of potassa, the fluid extract of buckthorn, and mix thoroughly. The result is an elegant product, free from nauseating or disagreeable taste.

This product is, of course, somewhat weaker than a fluid extract is supposed to be.

# Extract of Cactus Grandiflorus, Fluid.

The preparation sold under this name is

the freshly gathered fleshy stems, leaves and flowers, which are crushed, covered with alcohol, and macerated for 2 weeks. Three species of plants are now generally employed indiscriminately in making this preparation, viz., Cereus grandiflorus, C. Bonplandi and C. McDonaldi.

# Extract of Calamus.

Calamus, cut fine .....av.oz. 4 Alcohol Water.....of each, sufficient

Mix the drug with 9 fluidounces of alcohol and 12 of water, macerate for 4 days, agitating occasionally, and strain with expression. To the residue, add 41 fluidounces of alcohol and six of water, macerate for 24 hours, and strain with expression. Mix the two liquids and evaporate on a water bath to thick fluid extract.—Germ. Phar.

# Extract of Calendula, Nonalcoholic, Fluid.

Calendula (flowering herb) in No 40 powder.....av.oz. 17<u>1</u> Glycerin.....fl.oz 8 Alcohol, Water.....of each, sufficient

Moisten the flowers with a menstruum composed of 2 parts of water and 1 of alcohol, by measure. and macerate for 12 hours. Precolate to exhaustion with same strength of menstruum, recover the alcohol by distillation, than evaporate carefully to 8 fluidounces, and add the glycerin.

# Extract of Cardamom, Compound Fluid.

What is commercially sold under this title is made as follows:

Cardamom (without capsules)av.oz.	3 <del>1</del>
Cassia cinnamonav.oz.	3 <u>i</u>
Carawayav.oz.	11
Cochinealav.oz.	
Diluted alcohol sufficier	

Grind the drugs to moderately fine powder, and extract with diluted alcohol by the process of the pharmacœpia or the National Formulary, so as to obtain 16 fluidounces of product.

This product is ten times the strength of the official tincture, which may be prepared by mixing 1 fluidounce of this with  $\frac{1}{2}$  fluidounce of glycerin, and  $8\frac{1}{2}$  fluidounces of diluted alcohol.

# Extract of Cantharides, Acetic.

Cantharides,			
der			
Alcohol		 fl.oz.	<b>20</b>
Diluted acetic	acid	 fl.oz.	1

Mix the above, macerate for 8 days, express, allow the colature to stand for several days, then filter, and evaporate the filtrate at a temperature not exceeding 60 degrees C., so that on cooling it will have the consistency of butter.

The yield is about 30 per cent.-D.

# Extract of Carduus Benedictus.

Carduus benedictus, cut .....av.oz. 8 Alcohol, Water.

Diluted alcohol.....of each, sufficient

Macerate the drug with 32 fluidounces of water, macerate for 24 hours, express, macerate the residue with 16 fluidounces of water for 24 hours, express again, mix the two liquids, evaporate to 4 av. ounces, and add to it 4 fluidounces of alcohol. Upon allowing to stand undisturbed in a cool place, crystals of potassium salts will separate; the liquid should be filtered, the substance remaining upon the filter should be macerated, or soaked with 2 fluidounces of diluted alcohol, and filter this in two or three days, mix the 2 filtrates, evaporate to 11 av. ounces allow the extract to cool, set aside for 8 days, then dissolve it in 5 fluidounces of distilled water, set aside in a cool place for 24 hours, filter and evaporate the filtrate to a thick extract upon a water bath.

The yield is about 16 per cent.—1).

# Extract of Cascara Sagrada.

Cascara sagrada, No. 20 powder. av. oz. 8 Alcohol,

Water.....of each, sufficient

Mix the drugs with  $10\frac{1}{2}$  fluidounces of alcohol and  $13\frac{1}{4}$  fluidounces of water, macerate for 6 or 7 days and express. Mix the residue with 7 fluidounces of alcohol. and  $8\frac{1}{4}$ fluidounces of water, macerate for 3 days, and express again. Mix the two liquids, set aside in a cool place for several days, filter, and evaporate the filtrate on a water bath either to thick consistency or to dryness. If made into hard plastic extract, the yield is about 28 per cent; if made into dry mass, it is but about 24 per cent. -1.

A more rational method of preparing this

extract would be by extracting the drug by percolation, using a menstruum composed of alcohol and water in the proportion of 3 of the former to 4 of the latter by measure, and evaporating the percolate as before.

# Extract of Cascara Sagrada, Fluid. I.

Cascara Sagrada, fine powder..av.oz. 17<sup>1</sup>/<sub>2</sub> Diluted alcohol.....sufficient

Extract the drug by the usual process for fluid extracts so as to obtain 16 fluidounces of product.-U. S. P.

II.

Cascara sagrada, coarse powder.av.oz. 16½ Alcohol.....fl.oz. 4 Distilled water.....sufficient

Boil the bark with 3 or 4 successive quantities of water, about 32 fluidounces each time, straining after each boiling. Evaporate the united colatures on a water bath to 12 fluidounces, allow to cool, add the alcohol, let stand for several hours, filter, and to the filtrate add enough distilled water, if necessary, to make 16 fluidounces.—Brit. Pharm.

# Extract of Cascara Sagrada, Bitterless or Tasteless Fluid. (Extractum Cascaræ Sagradæ Examaratæ Fluidum.) I.

Bitterless cascara sagrada....av.oz.  $17\frac{1}{2}$ Alcohol,

Water.....of each, sufficient

Use as menstruum a mixture of alcohol and water in the proportion of 3 of the former and 1 of the latter by measure. The process of extraction may be that of the pharmacopœia, or the National Formulary, or any other suitable process for fluid extracts. The product should measure 16 fluidounces.—D.

Bitterless cascara sagrada is made by intimately mixing 10 av.ounces of cascara sagrada in fine powder and 1 of calcined magnesia with 20 fluidounces of water, allowing to stand for 12 hours, then drying on a water bath with constant stirring, powdering again, and sifting.—D.

# II.

Cascara sagrada, No.40 powder. av.oz. 17½ Calcined magnesia.....gr. 80 Alcohol, Water.....of each, sufficient

Mix the alcohol and water in the proportions of 2 parts of alcohol to 3 parts of water

by measure, and moisten the mixed powders thoroughly with the menstruum, then let it stand until the bitterness has disappeared, and pack in a cylindrical percolator, not too firmly, and pour on menstruum. When the liquid begins to drop from the percolator. close the lower orifice, and proceed according to the U. S. P. or N. F. method of preparing fluid extracts, the product to measure 16 fluidounces.

III.

Cascara sagrada, coarsely pow-

dered.	av.oz	. 17%
Calcined	magnesiaav.oz	. 13
Alcohol,	0	
Water,		
Glycerin	of each, suffic	ient

Mix the drug and magnesia, moisten with water and allow to macerate for several hours. Then pack the mixture in a percolator and allow to macerate for 48 hours; add 12 fluidounces of alcohol, allow to macerate for 12 hours longer, and finally begin percolation, using diluted alcohol as the menstruum. The first 12 fluidounces should be reserved, and percolation continued to exhaustion. Recover the alcohol and evaporate the percolate to soft extract, and dissolve it in the reserved portion, adding sufficient glycerin to make 16 fluidounces.

The bitterless fluid extracts may be used as they are or be made still more pleasant by the addition of licorice and cinnamon or other aromatics. The next preparations are examples of aromatic fluid extract of cascara.

# Extract of Cascara Sagrada, Aromatic Fluid. (Cascara Aromatic.)

I.		
	Cascara sagrada, fine powderav.oz.	174
	Licorice root, fine powderav.oz.	11
	Calcined magnesiaav.oz.	24
	Glycerinfl.oz.	4
	Compound spirit of orangefl.dr.	11
	Alcoholfl.oz.	8
	Water,	
	Diluted start of a 1 and 1	

Diluted alcohol.....of each, sufficient

Mix the powdered drugs and the magnesia with 32 fluidounces of water; macerate for 13 hours and then dry the mixture on a waterbath at a gentle heat. Mix the glycerin and the alcohol with 4 fluidounces of water, and percolate the dried powders with this menstruum, followed by diluted alcohol. Reserve the first 184 fluidounces that pass, and set this aside. Continue the percolation with diluted alcohol to practical exhaustion, evaporate this second portion to a soft extract, dissolve it in the reserved portion, and add the compound spirit of orange and sufficient diluted alcohol to make 16 fluidounces of fluid extract.—N. F.

П.

Cascara sagrada, No. 40 powder av.oz.	17‡
Calcined magnesiaav.oz.	134
Waterfl.oz.	18
Alcoholfl.oz.	13
Glycerinfl.oz.	4
Extract of licorice, purified, N. F. av. oz.	4 <u>†</u>
Saccharingr.	30
Oil of fenneldrops	
Diluted alcoholsufficient	ent

Mix the first two ingredients very intimately, moisten with water and macerate for several hours. Then pack the mixture in a percolator and allow to macerate for another period of about 48 hours; then add the alcohol and allow to macerate 12 hours longer. Now start percolation with diluted alcohol and continue until the drug is exhausted. The percolation is allowed to go on very slowly at first, the heavier portion being reserved to the amount of about 13 fluidounces and the remainder in succession to about 16 fluidounces. Recover the alcohol, commencing with the most dilute of the liquors, and evaporate until the whole is reduced to 12 fluidounces, including the glycerin; to this product add the extract of licorice, saccharin and oil of fennel, the whole to measure 16 fluidounces.

III.

Cascara sagrada, No. 40 powder av.oz.	174
Calcined magnesiagr.	80
Alcoholfl.oz.	19
Watersuffici	ent

Mix the alcohol with the water in the proportion of 2 of the former to 8 of the latter by measure; moisten the mixed powders thoroughly with the menstruum, and let stand until the bitterness disappears; then pack in a percolator and percolate, adding more water, if necessary, to exhaust the drug. Reserve the first 12 fluidounces of percolate, evaporate the remainder to 2 fluidounces, mix the two and add.

Spirit of cinnamonm.	30
Spirit of nutmegm.	
Fluid extract of licorice or puri-	
fied extract of licorice, N. F. fl.oz.	1
Glycerin	1

This preparation may also be prepared from the bitterless fluid extract of cascara sagrada by the addition of licorice extracts and aromatics.

# Extract of Cascara Sagrada, Water-Miscible Fluid.

Cascara sagrada (1 year old),	
No. 20 powderav.oz.	17į
Alcoholfl.oz.	4
Distilled watersufficie	nt

Moisten the bark with a portion of the water; allow to remain a few hours to soften and swell; pack loosely in a percolator, and percolate with more water until exhausted. Evaporate on a water bath to the consistency of a brittle extract, which, when cold, treat with cold water until thoroughly disintegrated. Allow this to stand and settle. Strain through flannel, and evaporate the strained liquor to 12 fluidounces, add the alcohol, when cold, and filter if necessary.

This preparation does not deposit either on keeping or on diluting with water, and. although bitter, is free from nauseous taste and smell.

# Extract of Cascara Sagrada, Compound Fluid.

Fluid extract of cascara sagrada. fl.oz. 61 Fluid extract of licorice......fl.oz. 61 Fluid extract of berberis aquifolium.....fl.oz. 314 -D.

# Extract of Cinchona, Compound Fluid.

The article sold commercially under this title may be prepared as follows:

Red cinchona, powder.....av.oz. 7 Bitter orange peel, powder....av.oz. 534 Serpentaria, powder.....av.oz. 14 Glycerin, Water, Alcohol.....of each, sufficient

As a menstruum, use a mixture of the three liquids in the proportion of 11 fluidounces each of the glycerin and water, and 14 of alcohol. Extract the mixed drugs by any suitable process so as to obtain 16 fluidounces of product.

This product is 4 times the strength of the compound tincture. To make the tincture, mix 4 fluidounces of this extract, 1 of water, and 11 of alcohol.

# Extract of Catechu, Compound Fluid.

The article sold under this name may be made as follows:

Catechu, powder.....av.oz. 7 Cassia cinnamon, powder.....av.oz. 3½ Clean, dry sand,

Diluted alcohol.....of each, sufficient

Mix the two drugs and then add about twice the volume of sand; extract this mixture by the usual method for making fluid extracts, using diluted alcohol as a menstruum, the product to measure 16 fluidounces.

This product is 4 times the strength of the official tincture, which latter may be prepared from it by mixing 4 fluidounces with 12 fluidounces of diluted alcohol.

# Extract of Colchicum Seed.

Colchicum seed, coarse powder..av.oz. 8 Alcohol,

Water.....of each, sufficient

Mix the seed with 10 fluidounces of alcohol and 30 of water, macerate for 5 or 6 days, agitating occasionally, and express. Mix the residue with 14 fluidounces of alcohol and 12 of water; macerate for 3 days, and express again. Mix the two liquids, set aside in a cool place for 2 days, filter, and evaporate the filtrate upon a water bath to thick extract.

The yield is 18 to 20 per cent.-D.

# Extract of Columbo.

Columbo, coarsely powdered....av.oz. 8 Alcohol,

Water.....of each, sufficient

Mix the drug with 9 fluidounces of alcohol and 11 of water, macerate for 3 days at a temperature of 30 to 40 degs. C., and express. Mix the residue with 6 fluidounces of alcohol and 7 fluidounces of water; macerate for 24 hours, and express again. Mix the 2 liquids, place in a cool place for 2 days, filter, and evaporate the filtrate to dryness. The yield is 9 to 11 per cent.—D.

A preferable method of production would be to extract the fine drug with mixture of 4 parts by means of alcohol and 5 of water, by percolation, and evaporate this percolate to thick extract or drynes.

Extract of Couch Grass. (Extract of Triticum.—Mellago Graminis.)

Triticum, cut.....av.oz. 8 Water, boiling.....fl.oz. 48 Digest for 6 hours, strain, boil down about 12 fluidounces, allow to cool, add 16 fluidounces of water, filter, and evaporate the filtrate to thick consistency.—Germ. Pharm.

The yield is about 30 per cent.

Extract of Couch Grass, Fluid. (Fluid Extract of Triticum.)

I. Refer to the United States pharmacopoeia.

II. The following is a quicker process than that of the pharmacopœia and yields a product equally good:

Triticum, cutav.oz.	. 174
Alcoholfl.oz.	
Waterpints	s 10

Boil the drug for one-half hour with 5 pints of water, strain and express; boil the residue again in the same way with the same amount of water, strain again and express. Mix the 2 decoctions, evaporate them to 12 fluidounces, add 4 fluidounces of alcohol, filter, and add enough through the filter, if necessary, to make 16 fluidounces.

# **Extract of Elecampane.** (Extract of Inula.—Extractum Helenii.)

Elecampane, coarse powderav.oz.	8
Alcoholfl.oz. \$	83
Waterfl.oz. &	36 <sup>°</sup>

Mix the drug with 19¼ fluidounces of alcohol and 24 fluidounces of water, macerate for 24 hours, and express; macerate the residue with 9½ fluidounces of alchol and 12 fluidounces of water for 24 hours and express again. Mix the two liquids and evaporate on a water bath to thick extract.—Germ. Pharm.

A better plan would be to exhaust the ground with a mixture of alcohol and water in the proportion of 4 of the former to 5 of the latter by measure, and then evaporate the liquid obtained, as before.

# Extract of Ergot. (Ergotin.)

The extract of ergot of the United States pharmacopeaia is prepared by evaporating the fluid extract which is made by extraction of the drug with diluted alcohol. This extract is now generally dispensed in this country when Bonjean's ergotin is demanded. This latter preparation was originally made,

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however, by exhausting powdered ergot with cold water by percolation, heating the percolate to 93 degs. C., filtering, evaporating the filtrate to a syrupy consistence, allowing to cool, adding alcohol in considerable excess to precipitate gummy and albuminous matter, allowing to stand, decanting the clear liquid, or else filtering, and evaporating the decantate or filtrate on a water bath to soft extract.

The ergotin of Wiggers, which is probably no longer in use, was simply a dried alcoholic extract of ergot.

# Extract of Ergot, Fluid.

I.

Ergot, recently dried	and	in	
fine powder		av.oz.	17以
Acetic acid		fl.dr.	21/2
Diluted alcohol		sufficie	ent

Mix the acid with  $15\frac{3}{4}$  fluidounces of diluted alcohol; moisten, pack in a percolator, and macerate the drug in the usual way, using this mixture as a menstruum, and then percolate. When all this mixture is exhausted, follow it with diluted alcohol, percolating until no more extractive is obtained. Reserve the first 14 fluidounces of percolate, evaporate the remaining percolate, at a temperature not above 50 degs. C., to soft extract, add this to first percolate, and finally add enough diluted alcohol to make 16 fluidounces.—U. S. P.

II. Another preparation highly desirable for hypodermic use is the following:

"Purified ergot" is digested with twice its weight of water at 65 degs, C., for 24 hours and expressed; the residue is again macerated in warm water for 12 hours. After settling, the expressed liquids are strained and evaporated separately; when both together weigh one-half as much as the ergot emploved, they are mixed and sufficient alcohol added to make the liquid of 25 per cent alcoholic strength, or one-third as much as the aqueous solution. After standing for several hours, the liquid is filtered and the gummy residue washed with so much 25 per cent alcohol as to make the filtered liquid measure three-fourths or 75 per cent of the amount of crude drug employed (volume for weight). To this glycerin is added to make the finished preparation represent the amount of

crude drug ergot originally used, pint for pound.

This preparation should be kept in small well-filled bottles in a cool, dark place.

Purified ergot employed in making the latter preparation may be made by percolating coarsely powdered ergot with deodorized benzine, until no more fatty matter is extracted, then passing alcohol through the drug until all the benzine is displaced, and then spreading the extracted drug out in thin layers and allowing it to remain exposed until perfectly dry and free from the odor of alcohol and benzine.

Such a prepared ergot will keep indefinitely.

# Extract of Galanga, Fluid.

Extract the powdered drug by any suitable process, using alcohol as a menstruum, and evaporate the tincture obtained upon a water bath to soft extract.

# Extract of Gentian, Compound Fluid.

The article sold commercially under this title may be prepared as follows:

Gentianav.oz.	11
Bitter orange peel av.oz.	41
Cardamomgr.	<b>480</b> ´¯
Alcohol,	
Water	ient

Reduce the drugs together to moderately coarse powder, and extract by the usual process for making fluid extracts, so as to obtain 16 fluidounces of product, using as a menstruum a mixture of alcohol and water in the proportions of 6 parts by volume of the former to 4 of the latter.

The product is six times the strength of the official compound tincture, which latter may be prepared from it by mixing 1 fluidounce of it with 3 of alcohol and 2 of water.

# Extract of Golden Seal, Aqueous or Non-Alcoholic Fluid.

The preparation which is sold under this name is generally prepared like the "glycerite of hydrastis" of the pharmacopœia. This is prepared according to the following formulæ:

I.

Hydrastis, fine powder	.av.oz. 171/2
Glycerin	fl.oz. 8
Alcohol	sufficient
Water, enough to make	fl.oz. 16

Moisten the hydrastis with 6 fluidounces

of alcohol, pack it firmly in a percolator, and percolate with alcohol until the hydrastis is practically exhausted. To the percolate add 4 fluidounces of water, and then remove the alcohol by evaporation or distillation. After the alcohol is driven off, add enough water to the residue to make it measure 8 fluidounces, set it aside for 24 hours, then filter, pass enough water through the filter to make the filtrate measure 8 fluidounces, and, lastly, add the glycerin.—U. S. P.

# Extract of Golden Seal. (Extract of Hydrastis.)

Exhaust golden seal in fine powder by any suitable process, using as a menstruum a mixture of alcohol and water in the proportion of 3 of the former to 1 of the latter by volume; then evaporate the tincture on a water bath to soft extract consistency.—D. modified.

The yield is about 30 per cent.

II.

Hydrastis, in fine powderav.oz. 1712	2
Alcohol	
Glycerinfl.oz. 8	
Watersufficient	
	- 1

Exhaust the hydrastis with the alcohol previously reduced to the strength of 85 per cent by the addition of 4 ounces of water in a suitable percolator. To the percolate thus obtained add the glycerin and water, and recover the alcohol by distillation. Let the residue stand for 2 days to separate resinous matter which deposits, decant the clear liquid, filter it, and add sufficient water to make the preparation measure 16 fluidounces.

# Extract of Golden Seal, Colorless Fluid.

The preparation which is sold under this title is the same as the "colorless solution of hydrastis," which see elsewhere in Part 1.

# Extract of Hemlock Spruce, Nonalcoholic Fluid.

Pinus Canadensis, in No. 40 powder.....av.oz. 174 Water, Alcohol......of each, sufficient Glycerin.....fl.oz. 8

Mix the alcohol and water in the proportion of 1 of the former to 2 of the latter, and exhaust the drug by the process of percolation. Distill the alcohol from the percolate

and evaporate the remaining liquid to 8 fluidounces; to the residue add the glycerin.

Extract of Granatum. (Extract of Pomegranate Root Bark.)

Exhaust granatum in fine powder by any suitable process, using as a menstruum a mixture of alcohol and water in the proportion of 4 of the former to 5 of the latter by measure. Evaporate the tincture on a water bath to thick extract or to dryness. If evaporated to thick extract the yield is about 20 per cent, and if to dryness, about 16 per cent.—D. modified.

# Extract of Horsechestnut Bark.

Horsechestnut bark, coarse powder .....av.oz. 8 Distilled water,

Alcohol.....of each, sufficient

Mix the bark with 28 fluidounces of distilled water for 12 hours, then heat on a water bath for 2 or 3 hours, and express. Heat the residue for 2 hours with 16 fluidounces of water, and again express. Evaporate the expressed liquids to 4 fluidounces, add  $2\frac{1}{2}$ fluidounces of alcohol, set aside for 24 hours, filter, wash the filter with a mixture of 4 fluidrams of alcohol and  $6\frac{1}{2}$  fluidrams of water, and evaporate the filtrate to dryness. The yield is about 14 per cent.—D. modified.

# Extract of Jamaica Dogwood, Fluid.

(Fluid Extract of Piscidia.)

Jamaica dogwood, fine powder, av.oz. 17<sup>1</sup>/<sub>2</sub> Glycerin.....fl.oz. 1<sup>1</sup>/<sub>2</sub> Alcohol, Water .....of each, sufficient

Moisten the drug with a mixture of the glycerin and  $5\frac{1}{2}$  fluidounces of alcohol, pack in a percolator, and exhaust with a mixture of alcohol and water in the proportion of 3 of the former to 1 of the latter by measure. Reserve the first 13 fluidounces, evaporate the remainder to soft extract, dissolve this in the reserved portion, and add enough of a mixture of alcohol and water like that used for extraction, to make the product measure 16 fluidounces.—D. modified.

# Extract of Kola.

Kola, coarse powder .....av.oz. 8 Alcohol, Distilled water.....of each, sufficient

Manual and a local sector of the sector of t

exhaust the drug by the process of percolattion. Distill the alcohol from the percolate fluidounces of alcohol and 12 of water for 3 II.

days and express. Macerate the residue with 181/2 fluidounces of alcohol and 8 of water for 2 days and again express. Mix the two liquids, filter, and evaporate the filtrate on a water bath to dryness. The yield is about 80 or 85 per cent.-D.

# Extract of Kousso, Fluid.

Kousso, coarse powder.....av.oz. 171/2 

Exhaust the drug by any suitable process of percolation, using alcohol as a menstruum, the product to measure 16 fluidounces.-D.

# Extract of Lavender, Compound Fluid.

The article sold commercially under this title may be prepared as follows:

Cinnamonav.oz.	21/
Nutmeggr.	
Red saundersgr.	600
Clovesgr.	
Oil of lavender flowersfl.oz.	
Oil of rosemaryfl.dr.	2
Alcoholfl.oz.	
Waterfl.oz.	
Diluted alcoholsuffic	ient
Paduca the drugs to second neurola	

Reduce the drugs to coarse powder; add the oils to the alcohol, add the water and with this mixture extract the drugs by any suitable process for fluid extracts, so as to obtain 16 fluidounces of extract, adding diluted alcohol, if necessary, to make up the requisite volume.

The product is eight times the strength of the compound tincture, which latter may be prepared from it by mixing 2 fluidounces of it with 101/2 fluidounces of alcohol and 31/2 fluidounces of water.

# Extracts, Liquid.

A class of preparations by the name of "liquid extracts " are recognized by the British pharmacopœia and British Formulary. These are in general of the same strength as the fluid extracts of this country, and such of the liquid extracts as are recognized in this formulary are mentioned under the title of "fluid extracts."

# Extract of Licorice.

I.

Licorice, coarse powder.....av.oz. 171/2 

of water, macerate the drug with this mixture, inacerate for 24 hours, pack in a percolator, and percolate with the remainder of the mixture, and then with distilled water until the drug is practically exhausted. Evaporate the liquid obtained on a water bath to pilular consistence.

This is the U. S. P. formula for pure extract of licorice.

Extract of licorice in sticks,

Water .....of each, sufficient

Put a layer of well-washed rye-straw over the bottom of a keg or other suitable tall vessel. Then put a single layer of sticks of extract, broken into coarse pieces, over it. Continue to put in alternate layers of straw and extract until the vessel is full, or the whole of the extract has been disposed of. Fill the vessel with cold water, and allow it to remain for 3 days. Then draw off the solution, which has formed, by means of a faucet, or siphon, or otherwise, refill the vessel with cold water, and proceed as before. Mix the several solutions obtained, allow any suspended matter to subside, decant the clear solution, and strain the remainder without pressure. Finally evaporate the liquid on a water bath to the consistence of a pilular extract.

This is the N. F. formula for purified extract of licorice.

III.

Licorice root, cut.....av.oz. 8 Distilled water.....sufficient

Dry the licorice, reduce it to coarse powder, macerate with 24 fluidounces of water for 12 hours, and express; mix the residue with 16 fluidounces of hot water, macerate for 1 hour and again express. Mix the two liquids, add some filter paper pulp or scraps of filter paper, boil for not less than 15 minutes, removing the scum, and filtering. This filtrate must be returned to the filter until it is absolutely clear or transparent. Then evaporate to the consistence of thick honey, set it aside in a cool place for 2 days, dissolve in 2 parts of water, filter again, and evaporate on a water bath to thick extract.

Inasmuch as the liquids obtained or produced in the manufacture of this preparation Mix the ammonia water with 48 fluidounces "sour" quite easily, this extract is best made

during the cool seasons of the year, the different operations also being performed as rapidly as possible.

The yield from Russian licorice is 35 to 38 per cent; from spanish, 20 to 25 per cent. --D.

IV.

Russian licorice, coarsely pow-

dered		<b>.</b>	av. oz. 8	
Alcohol				
Water	•••••	sı	ıfficient	

Pour 40 fluidounces of cold water over the licorice, allow to stand for 4 hours, stirring frequently, and then express. Extract the press cake with 24 fluidounces of boiling water and again express. Mix the two liquid extracts and at once.

Evaporate to 4 av.ounces, and add to the solution while hot the alcohol, and allow to stand for 24 hours. Then filter through paper and from the filtrate distill off 5 fluidounces. Evaporate the residue to a medium thick extract consistence.

The extract is completely soluble in water. The yield is about 18 to 20 per cent. It is necessary, particularly in summer, to perform the operation rapidly; by beginning at 6 in the morning one can be ready by midday to go on with the evaporation and the alcohol can be added by evening.—D.

# Extract of Lobelia, Compound Fluid. Lobelia herb.....av.oz. 834 Skunk cabbage.....av.oz. 414 Blood root....av.oz. 414 Diluted alcohol.....sufficient

Mix the drugs, reduce to powder, and extract in the usual way by percolation, employing diluted alcohol as a menstruum, the product to measure 16 fluidounces.

# Extract of Logwood, Fluid.

Unfermented logwood, No. 20 powder ......av.oz. 16 Distilled water .....sufficient

Boil the logwood with 32 fluidounces of water in a covered copper or enameled pan for half an hour, and strain. Add 32 fluidounces of water to the residue, boil for another half-hour, and again strain. Repeat the process for a third time, and having mixed the strained liquors, evaporate over a water bath (or preferably in vacuo) until the product measures 16 fluidounces. Set aside

for 7 days, and then decant the clear liquor by means of a syphon from any sediment that may have been deposited.—Brit. Form.

# Extract of Lovage. (Extractum Levistici.)

Exhaust powdered lovage in any suitable manner, using as a menstruum a mixture of 4 parts of alcohol and 5 of water by measure. Evaporate the liquid upon a water bath to the consistence of thick extract. The yield of extract is about 18 per cent.—D.

# Extract of Malt.

I.

Barley malt, ground, not finer than No. 20.....av.oz. 171/2 Distilled water.....fl.oz. 80

Mix the malt with 16 fluidounces of water, macerate for 6 hours, then add the remain<sup>-</sup> der of the water at a temperature of 30 degs. C. and digest the whole on a water bath at a temperature not exceeding 55 degs. C. for an hour. Strain and press out all the liquid from the residue. Evaporate the colature at once on a water bath, or preferably in a vacuum apparatus, at a temperature not exceeding 55 degs. C., as rapidly as practicable, to the consistence of thick honey.

The extract must be preserved in wellclosed vessels in a cool place.—U. S. P. 1880 and N. F.

II.

The following is a process for preparing a malt extract of somewhat different character, the quantities given here being, of course, such as would be used upon a tolerably large scale: these may, of course, be reduced as desired:

Use a tube or churn of a capacity of 5 gallons and having a perforated false bottom. Pour into it  $3\frac{1}{2}$  gallons of water of a temperature of about 76 to 78 degs. C., then add  $\frac{1}{2}$  peck of barley malt, coarsely ground, gradually stirring it in well. Cover the vessel and set away in a warm place, and allow to remain perfectly at rest for 3 or 4 hours, taking care that the temperature does not fall below 65 degs. C. This is the process of mashing.

mixed the strained liquors, evaporate over a water bath (or preferably in vacuo) until the product measures 16 fluidounces. Set aside

water a little above the temperature of the	Extract of Malt with Beef.
extract, and draw off the fluid below, until the malt is practically exhausted. Evaporate the fluid by means of a water bath to thick	Extract of beef, Liebig'sav.oz. ½ Waterfl.oz. 1 Extract of maltfl.oz. 15
consistence. The tub or churn must be kept perfectly clean. Once a week it should be washed	Dissolve the extract of beef in the water and mix with the malt extract.
with alkaline water and when not in use it should be kept filled with hime water.	Extract of Malt with Beef, Wine and Iron.
Extract of Malt, Fluid.	Extract of maltfl.oz. 8 Beef, wine and ironfl.oz. 8
Maltav.oz. 16 Alcohol, Waterof each, sufficient	Extract of Malt with Cascara Sag- rada.
Reduce the malt to coarse powder, not finer than No. 20. Moisten it with 8 fluid-	Fluid extract of cascara sagrada fl.oz. 2 · Extract of maltfl.oz. 14
ounces of a mixture of 1 volume of alcohol and 3 volumes of water, and set it aside, well-covered, until it has ceased to swell. Then mix it with as much of the menstruum as it will take up without dripping, pack it	Extract of Malt with Cod Liver Oil. I. Extract of maltfl.oz. 8 Cod liver oilfl.oz. 8 Oil of wintergreendrops 20
uniformly, but without pressure, in a perco- lator, and add enough of the before-men- tioned menstruum to cover it. When the liquid begins to drop from the orifice, close the latter, and allow the contents to macerate during 24 hours, adding from time to time more menstruum, if necessary, to keep the	Oil of bitter almondsdrops 5 Rub the cod liver oil very gradually and thoroughly with the malt extract, then add the flavoring oils. If the mixture becomes too thick at any time, thin by the addition of a little water.
malt just covered. Then remove the cork and allow the percolation to proceed until the percolate weighs 12 av.ounces. Set this aside, well-corked, until any suspended mat- ters have been deposited. Then decant the clear liquid and preserve it for use.	II.         Cod liver oil :
The product thus obtained may be regard- ed as being practically equivalent to the drug in the proportion of minim for grain, the ap-	well mixed, then add the oil gradually with uninterrupted trituration, and then add the water.
parent excess of dissolved matters present in the first portions of the percolate being about offset by the soluble matters still remaining in the drug, when the percolation is inter-	III. Cod liver oilfl.oz. 8 Mucilage of dextrinfl.oz. 2 Extract of maltfl.oz. 6

1

To the mucilage of dextrin contained in a suitable bottle, add the extract of malt, and mix them thoroughly by agitation, and then gradually add the cod liver oil, first in small portions, agitating each time until the lastadded portion is perfectly incorporated.

Extract of malt, most suitable for this preparation, should have about the same consistence as balsam of peru, at a temperature of 15 degs. C.--N. F.

rupted.-N. F.

Extract of Malt with Alteratives.

Water, hot .....fl.oz.

Extract of malt, enough to

Calcium bromide.....gr. 128

make ......fl.oz. 16

Dissolve the salts in the water, and add to

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Extract of Malt with Cod Liver Oil and Iron. (Extract of Malt with Cod Liver Oil, Ferrated.) I. Cod liver oilfl.oz. 6 Extract of maltfl.oz. 6 Syrup of soluble saccharated iron, N. Ffl.oz. 4 Add the oil gradually to the extract by trituration in a mortar until an emulsion is formed, then add the syrup. II. Solution of dialyzed ironfl.dr. 5½ Extract of malt with cod liver oil, enough to makefl.oz. 16 Mix well by trituration. III.	<ul> <li>ture of about \$2 degs. C. for 3 hours, stirring occasionally. Put the malt extract in a mortar, add the pancreatized oil gradually with constant stirring, and flavor the whole with oil of pimento (or other suitable flavoring.)</li> <li>II. In this preparation, the oil is not first pancreatized as in the foregoing formula: Pancreatin, saccharated</li></ul>
Citrate of iron and ammoniumgr. 64 Water, hotfl.dr. 4 Extract of malt with cod liver oilfl.oz. 15½ Dissolve the iron salt in the water and in- corporate this solution with malt extract and	Pepsin, saccharatedgr. 128 Extract of malt with cod liver oilfloz. 16 Triturate the pepsin to fine powder, add a portion of the malt extract with oil, mix well, and add the seminater
oil. IV.	and add the remainder. Extract of Malt with Cod Liver Oil
Iron phosphate, soluble	and Hypophosphites. Calcium hypophosphite gr. 64 Sodium hypophosphite gr. 48 Potassium hypophosphite gr. 32 Glycerin
Extract of Malt with Cod Liver Oil,	oilfl.oz. 14
Pancreatin and Pepsin. Pancreatin, saccharatedgr. 64 Pepsin, saccharatedgr. 128 Extract of malt with cod liver	Triturate the hypophosphites to a fine powder, dissolve them as nearly as possible in the water and glycerin, and incorporate with malt extract and oil.
oilfl.oz. 16 Triturate the pepsin and pancreatin togeth- er to fine powder, add a portion of the malt extract with oil, mix well, and add the re- mainder. Extract of Malt with Cod Liver Oil	Extract of Malt with Cod Liver Oil and Phosphorus. I. Phosphorus
and Pancreatin. (Malt Extract with Pancreatized Cod Liver Oil.) I. Cod liver oil	Dissolve the phosphorus by the heat of a water bath in 4 fluidounces of the oil in a stoppered bottle, shake thoroughly and when still warm incorporate the extract of malt, then add the remainder of the oil slowly to form an emulsion. II. Instead of using phosphorus as above, 100 minims of phosphorated oil may be em- ployed, this latter to be added to the cod

Dissolve the pancreatin and salines in the liver oil, and this mixture then to be added water, add the oil, and keep at a tempera- to the extract of malt in the usual manner.

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III. Instead of using either free phospho-	III.
rus or phosphorated oil, solution of phospho-	Citrate of iron and ammonium gr. 64
rus N. F. may be employed as according to	Water, hot fl.dr. 4
the following:	Extract of maltfl.oz. 151/2
Solution of phosphorusfl.oz. 1	Dissolve the iron salt in the water and add
Extract of malt with cod liver	the extract.
oilfl.oz. 15	IV. Instead of iron citrate in the last for-
Mix well by trituration.	mula, soluble iron phosphate may be em-
Each half fluidounce contains about 1-100	ployed.
gr. of phosphorus.	V.
gr. or phosphorus.	
Extract of Malt with Gentian and	Tincture of citrochloride of iron fl.dr. 4 Extract of maltfl.oz. 151/2
Chloride of Iron.	Extract of mart
	Extract of Malt with Iron and Qui-
Extract of maltfl.oz. 8 Elixir gentian and chloride of	nine Citrate.
ironfl.oz. 8	
	Citrate of iron and quinine gr. 128
Extract of Malt with Hypophos-	Water, hot         fl.oz.         1           Extract of malt         fl.oz.         15
phites.	
- Calcium hyphophosphitegr. 64	Dissolve the iron and quinine salt in the
Sodium hypophosphitegr. 48	water and incorporate with the malt extract.
Potassium hypophosphitegr. 32	Extract of Malt with Iron, Quinine
Water, hot fl.oz. 1	
Glycerin	and Strychnine Citrate.
Extract of malt fl.oz. 14	Strychnine sulphate
Rub the salts in a mortar with the water	Distilled water fl.dr. 2 Extract of malt with iron and
until dissolved or nearly so, add the glycerin	quinine citrate, enough to
and finally the malt extract.	make
The above is also made to contain 32 gr.	Dissolve the strychnine salt in the water
of iron hypophosphite.	and incorporate this solution with the com-
	pound malt extract.
Extract of Malt with Hypophosphite	pound man extract.
of Calcium.	Extract of Malt with Pancreatin.
Calcium hypophosphitegr. 128	Pancreatin, saccharatedgr. 64
Water, hotfl.oz. 1	Extract of maltfl.oz. 16
Glycerinfl.oz. 1 Extract of malt	Triturate the pancreatin and a small por-
	tion of the extract to a smooth paste and add
Triturate the calcium salt to fine powder,	the remainder of the extract.
dissolve as nearly as possible in the water	
and glycerin, and add the malt extract.	Extract of Malt with Pepsin.
Extract of Malt and Iron. (Ferrated	Pepsin, pure
	Hydrochloric acidfl.dr. 1
Extract of Malt.)	Glycerinfl.oz. 1
I.	Water fl.oz. 1
Iron pyrophosphategr. 64 Water, hotfl.dr. 4	Extract of maltfl.oz. 14
Extract of malt, enough to make fl.oz. 16	Add the acid to the water and in this dis-
Dissolve the iron salt in the water and in-	solve the pepsin, then add the glycerin and
	finally the malt extract.
corporate the solution with the malt extract.	
This is the usual method of preparing fer-	Extract of Malt with Compound
rated extract of malt.	Syrup of Phosphates.
II.	Compound syrup of phosphates,
Solution of dialyzed ironfl.dr. 51/2	N. F
Extract of malt, enough to make fl.oz. 16	Extract of maltfl.oz. 8

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# Pepsin.

Pancreatin, saccharatedgr.	64
Pepsin, saccharatedgr.	128
Simple syrupfl.uz.	
Extract of malt, enough to	
maketl.oz.	16

Triturate the pepsin and pancrealin to a smooth paste with the syrup, then add the mait extract.

# Extract of Malt with Phosphate of Iron and Quinine.

Elixir of iron phosphate and quinine ..... fl.oz. 8 Extract of malt.....fl.oz. 8

# Extract of Malt with Phosphate of Iron, Quinine and Strychnine.

Elixir	of B	iroa	ph	ost	ha	te.	qυ	j-	•	
Line										8
Extract	: of	ma	h.				• • •		fl.oz.	8

# Extract of Malt with Yerba Santa.

Fluid extract of verba santafl.oz.	1
Extract of malt	15

# Extract of Manaca, Fluid.

Manaca root	, fine powder	ar.oz. 174
	•	
Alcohol,		
ممرد ال	مد مع أد	configuration t

Moisten the drug with a mixture of the giveerin and 412 fluidounces of alcohol, then pack in a percolator and exhaust by the usual process of percolation, using as a menstruum a mixture of 8 parts by measure of alcohol and 1 of water. Reserve the first 11 fluidounces of percolate, evaporate the weak Extract of Pink Boot and Senna, periodate to 3 fluidosinces and mix with the reserve periodate -D. modified.

# Extract of Mesercon.

Exhaust moscieum in coarse powder by means of provolation or any other suitable process, using alcohol as a menstruum. Evaporate the percolate on a water bath to thin extract. Germ Phar.

The yield of extract is about 10 per centi-

# Extract of Opium, Aqueous.

Pharm differs from that of the U.S. Fharmkeep it in the powder form.

This addition of a foreign substance is, demand must and will be supplied. Extracts

Extract of Malt with Pancreatin and however, not necessary, if the process is modified, in shaking the concentrated opium infusion with an equal part of petroleum benzin; allow to stand together until separation has taken place; decant the benzin and evaporate the infusion to dryness. The extract so produced is easily reduced to powder and will remain in this form, is readily soluble in water, producing therewith a clear solution.

# Extract of Opium, Aqueous Deodorized Fluid.

The article sold generally under this title is the deodorized tincture of opium of the U. S. pharmacoporia.

# Extract of Opium, Camphorated

Fluid. (Concentrated Paregoric.)

Opium, fine powdergr. 2	240
Benzoic acidgr.	240
Campbor	
Oil of anisefl.dr.	4
Alcohol	12
Waterfl.oz.	3

Dissolve the camphor, oil and acid in the alcohol, triturate opium to a smooth paste with the water, mix the two liquids, macerate for 7 days agitating frequently, and filter.

This is similar to the "convenience" preparations put up by manufacturers which may be used for making paregoric. То make the latter mix 2 fluidounces of the concentrated preparation with 1 fluidounce of glycerin and 13 fluidounces of diluted alestol.

# Fluid.

Fluid extract of pink root fl.oz. 10	)
Fluid extract sennafl.oz. 6	i
Off of carawaym. 20	)
Oil of anise	
-U. S. P. 1870.	

# Extracts. Powdered.

Most extracts now appear on the market, not only in the cla-style plastic form, but also in the form of powder. Inasmuch as almost all plant extracts are injured by the This extract of opium of the German application of heat, the powdered extracts do not very well represent the drug, less so in not containing an addition of milk sight in fact than almost any preparation made to standardize the morphine strength and from a crude drug. However, there is a demand for these powdered extracts, and this

like those of opium and kino can be evaporated to dryness without any appreciable injury to the principles present, but others again, like hyoscyamus, valerian, etc., are very susceptible to change, either because of the presence of easily decomposable principles or because of the presence of volatile matter. These latter extracts should never be prepared in the powdered form.

In making powdered extracts of drugs containing volatile or easily decomposable principles, the temperature employed in drying should be quite low, say not to exceed 55 degs. C. The drying of the extract may be facilitated by spreading out in a thin layer and warming in a drying room or closet at the specified temperature, driving a current of warm, dry air through the chamber if this be convenient. Even then it may not be advisable or possible to reduce the extract to such dryness that it can be powdered, and then it becomes necessary to add a small amount of some substance, such as milk sugar or some of the powder of the drug itself. If the drug contains considerable fixed oil, the extract cannot be dried thoroughly and the intervention of such a powder is necessary. It is also to be remembered in this connection that in making powdered extracts, glycerin must not enter into the menstruum employed in the extraction of the drug, as this will prevent the extract from drying.

After an extract has been reduced to dryness, either with or without the intervention of the added powder, it should be reduced to fine powder and then be preserved in wellstoppered, wide-mouthed bottles.

#### Extract of Rhubarb, Aromatic Fluid.

Rhubarb	.av.oz. 131
Cinnamon	.av.oz. 231
Cloves	.av.oz. 23
Nutmeg	.av.oz. 11
Diluted alcohol	.sufficient

Reduce the drugs to moderately coarse powder and extract by the usual method of percolation, so as to make 16 fluidounces of product, using diluted alcohol as a menstruum.—N. F., 1st edition.

If 1 fluidounce of this be mixed with 15 fluidounces of syrup, the product is practical-

ly identical with the aromatic syrup of rhubarb of the pharmacopœia.

### Extract of Rhubarb, Compound.

Extract of rhubarbav.oz.	
Extract of aloesav.oz.	1
Resin of jalapav.oz.	1/2
Soap, powderedav.oz.	2

All of the above, if not in fine powder, should be reduced to this condition and then should be well mixed.—Germ. Phar.

### Extract of Quebracho.

Exhaust finely powdered quebracho by any suitable process, using as a menstruum a mixture of 4 parts of alcohol and 5 of water by volume, then evaporate the tincture on a water bath either to thick extract or to dryness.

The yield of thick extract is about 11 per cent, of dry extract 9 to 10 per cent.—D. modified.

### Extract of Rose, Inspissated.

Rose	leaves,	cut	moderately	
coa	rse			av.oz. 81
Alcoh	ol,			
Water	r,			
Glyce	rin		of each, su	afficient

Mix 30 fluidounces of alcohol and 10 of water, pour this mixture on the rose leaves, allow it to stand for 24 hours, express and evaporate the resulting fluid to 4 fluidounces. Allow the evaporated extract to stand for 24 hours at the room temperature, filter and evaporate the filtrate to a syrupy consistence. Then add sufficient glycerin to bring the whole up to 2 fluidounces. Of this extract, which is clearly soluble, 4 fluidrams is sufficient to make 16 fluidounces of honey of rose.

However, according to the U. S. pharmacopreia, honey of rose should be made from fluid extract of rose.

### Extracts, Saccharated.

These are a class of powdered extracts which represent the drug, weight for weight. They are prepared by exhausting the powdered drug with a suitable menstruum, evaporating the tincture to thick extract, adding some sugar of milk, continuing the evaporation to dryness, powdering and adding enough milk sugar to make up the weight of the original drug.

With one exception, these extracts are

seldom or never prescribed or used, the exception being saccharated extract of coto.

### Extract of Sarsaparilla.

Exhaust this drug in fine powder by the process of percolation or any other suitable process, using as menstruum a mixture of 6 parts of alcohol and 5 of water by volume; evaporate the tincture on a water bath to thick extract. The yield is about 20 per cent.—D. modified.

## Extract of Sarsaparilla, Compound Fluid.

I.

Sarsaparillaav.oz.	131
Licorice rootgr.	920
Sassafras barkav.oz.	
Mezereumav.oz. Glycerinfl.dr. Alcohol.	Ŷź.
Glycerinfl.dr.	13
Alcohol.	
Water	ient

Mix the glycerin with 5 fluidounces of alcohol and 10 of water. Percolate the drugs, mixed and ground to coarse powder, in the usual manner for making fluid extracts, using this mixture as a menstruum, so as to obtain 16 fluidounces of product. If more menstruum be required, a mixture of 1 volume of alcohol and 2 of water should be employed. ---U. S. P.

II. Another preparation of the same name is offered by manufacturers for the rapid preparation of the compound syrup of sarsaparilla. This preparation may be made as follows:

Sarsaparillaav.oz.	14 1/2
Licoricegr.	480
Sennagr.	480
Oil of sassafrasdrops	3
Oil of anisedrops	8
Oil of wintergreendrops	8
Alcohol,	
Water	ent

Mix the drugs, reduce them to moderately fine powder and extract by percolation or any suitable process to obtain 16 fluidounces of product, using as a menstruum a mixture of 1 part of alcohol to 2 of water by measure. To the product obtained add the volatile oils and shake well.

To make the compound syrup of sarsaparilla, mix 4 fluidounces of this extract with 12 fluidounces of simple syrup.

#### Extract of Senega.

Exhaust senega in fine powder by percolation or any other suitable process, using as a menstruum a mixture of 4 parts of alcohol and 5 parts of water by measure; then evaporate the tincture on a water bath to dryness. The yield is about 25 per cent.—D. modified.

### Extract of Senna, Aqueous Fluid.

The preparations sold commercially under this title are usually made by infusing cut senna leaves with enough hot water to just cover them, allowing to macerate for an hour or two, straining and expressing the liquid, infusing the residue again as before, straining and expressing the liquid again in the course of an hour or two, and mixing the This liquid usually measures two liquids. more than a finished fluid extract should measure, and inasmuch as it is not practicable to evaporate this infusion, the fluid extract of the market is prepared from the latter by adding enough alcohol to preserve it, allowing to stand for 24 hours, and filtering the liquid from the precipitated mucilage. The product is, of course, not properly a fluid extract.

A better process for this preparation is the process of the National Formulary for making deodorized fluid extract of senna, which is as follows:

Senna, fine powder .....av.oz. 17½ Alcohol, Water.....of each, sufficient

Moisten the senna with  $5\frac{1}{2}$  fluidounces of alcohol, pack it firmly in a percolator, and percolate it with alcohol until it is practically exhausted by this menstruum. The alcoholic percolate thus obtained is rejected, and the alcohol may be recovered therefrom by distillation. Then take out the moist powder, dry it, and extract by the usual method for making fluid extracts, using diluted alcohol as a menstruum, so as to obtain 16 fluidounces of product.

### Extract of Senna, Compound Fluid.

Senna	av.oz. 7¥
Jalap	av.oz. 734
Ccriander	av.oz. 24
Alcohol,	
Water	of each, sufficient
Reduce the drug	gs to fine powder and ex-

haust by percolation or any other suitable process for fluid extracts, using as a menstruum a mixture of 2 parts of alcohol and 1 of water by measure. The product should measure 16 fluidounces.

### Extract of Senna and Jalap, Fluid.

Sennaav.oz.	814
Jalap	834
Alcohol,	
Water	nt

Mix the drugs, reduce to fine powder, and exhaust by percolation or any other suitable process for fluid extracts, using as a menstruum a mixture of 2 parts of alcohol and 1 of water by measure. The product should measure 16 fluidounces.

#### Extract of Squill.

Squill, coarse powder .....av.oz. 8 Alcohol, Water .....of each, sufficient

Macerate the drug for 48 hours with 161/2 fluidounces of alcohol and 51/2 of alcohol and express. Macerate the residue again for 48 hours with 10 fluidounces of alcohol and 31/4 fluidounces of water and again express. Mix the two liquids, filter, and evaporate the filtrate on a water bath to thick consistency.

The yield is about 36 per cent.-D. modified.

#### Extract of Sumbul, Fluid.

Exhaust sumbul in fine powder with alcohol as a menstruum, using percolation or any other suitable process for extraction.

### Extract of Tobacco, Rademacher's.

Tobacco leaves, freshly gathered (green),

Water ......of each, sufficient

Cut the leaf, contuse in a mortar with sufficient water to make a pasty mass, express, and evaporate the liquid to soft extract. The yield is about 4 per cent.

### Extract of Tolu, Fluid.

Tolu balsam.....av.oz. 834 Alcohol, sufficient to make .... fl.oz. 16

Digest the balsam in a closed vessel with 10 fluidounces of alcohol on a water bath until dissolved, then strain through flannel, and wash the vessel and strainer with enough alcohol to make up the required amount.

designed for the convenient preparation of the official tincture, which may be prepared by mixing 21/2 fluidounces of the "fluid extract " with 131/2 fluidounces of alcohol.

### Extract of Tolu, Soluble Fluid.

The preparation which passes under this name may be prepared according to the following process:

Tolu balsam .....av.oz. 256 Magnesium carbonate.....gr. 100 Glycerin .....fl.oz. R Water, Alcohol .....of each, sufficient

Mix 5 fluidounces of the alcohol with the glycerin, add the balsam, and dissolve the latter by the aid of a moderate heat, shaking frequently, and avoiding loss by evaporation. Now add 6 fluidounces of water, allow the mixture to become cold, decant the milky liquid from the resinous precipitate, mix the decantate intimately with the magnesium carbonate in a mortar, filter, and wash mortar and filter with enough of a mixture of 1 part of alcohol and 2 of water by measure to make the filtrate measure 16 fluidounces.

This is designed for the rapid manufacture of syrup of tolu, which may be made by mixing 1 fluidounce of this "fluid extract " with 15 of simple syrup.

It is to be noted that the National Formulary recognizes a soluble tincture of tolu which was intended for the rapid preparation of syrup of tolu; this tincture is, however, not 16 times the strength of the syrup, as stated by the National Formulary.

### Extract of Valerian.

Exhaust valerian root in fine powder by percolation or any other suitable process, using as a menstruum a mixture of 4 parts of alcohol and 5 of water by volume. Evaporate the tincture obtained on a water bath to thick extract. The yield is about 20 per cent.-D. modified.

Extract of Wahoo. (Extract of Euonymus.) I.

Wahoo, coarse powder .....av.oz. 8 Water.

Alcohol .....of each, sufficient

Mix 2 volumes of alcohol and 1 of water and extract the drug in the usual way by per-This is not rightly a fluid extract; it is colation, so as to obtain 22 fluidounces of percolate or until the drug is exhausted. Evaporate this percolate on a water-bath to pilular consistence.—U. S. P.

II. The above preparation is in the form of a plastic extract; the British Formulary recognizes a similar preparation called "dry extract of euonymus" or "euonymin," which is prepared as follows:

Euonymus, No. 20 powder .... av.oz. 8 Diluted alcohol,

Milk sugar .....of each, sufficient

Moisten the bark with 8 fluidounces of diluted alcohol, pack in a percolator, and percolate with the same liquid until exhausted. Evaporate the percolate on a water bath to remove the alcohol. While the extract is still soft, incorporate with it enough powdered milk sugar—the actual amount required having been ascertained by first experimenting with a small amount of the extract—so that the final product shall contain 80 per cent of dry extractive. Then continue evaporation until the mixture is brittle when cold. Then powder and put into a well-stoppered bottle.

### Extract of Wormwood.

Wormwood, fine powder .....av.oz. 8 Alcohol,

Water .....of each, sufficient

Exhaust the drug by percolation or any other suitable process, using as a menstruum a mixture of 3 parts of alcohol and 10 of water by volume. Evaporate the tincture obtained on a water bath to thick extract.— Germ. Pharm. modified.

The yield is about 32 per cent.

### Extract of Yellow Dock, Compound Fluid.

Yellow dock	av.oz. 83
False bittersweet	
Figwort	av.oz. 24
American ivy	av.oz. 214
Diluted alcohol	sufficient

Mix the drugs, reduce to fine powder, and exhaust by percolation or any other suitable process for fluid extracts, using diluted alcohol as a menstruum, the product to measure 16 fluidounces.

### Extract of Yarrow.

Yarrow, fine powder .....av.oz. 8 Alcohol, Water .....of each, sufficient Exhaust the drug by percolation or any other suitable process, using as a menstruum a mixture of 4 parts of alcohol and 5 of water by measure. Evaporate the tincture on a water bath to thick extract.

The yield of extract is about 22 per cent.-D.

### Fats.

Fats, or greases, more properly termed Lards, may be found under the latter designation.

### Fuligokali.

			av	
Wood	soot	 	 av.	oz. 5
Water	••••	 	 suff	ficient
<b>.</b>			~ ~	

Dissolve the potassia in a sufficiency of water, about 32 fluidounces, add the soot, boil for one hour, dilute largely with water, filter, evaporate, filtrate to dryness, and place in a well-corked bottle.

The dose is 2 or 3 grains.

### Glycerite of Alum.

Alum, powderav.oz.	3
Glycerinfl.oz. 1	4%
Stir together in a porcelain dish, app	, -

gentle heat until solution is effected, set aside and decant the clear fluid from any deposited matter.—Brit. Pharm.

### Glycerite of Boraz.

Borax,	powder.	 av.oz.	4

Glycerin.....fl.oz. 141/2 Triturate together until dissolved, or else warm gently, stirring constantly until dissolved.—U. S. P. 1870.

Glycerite of Boric and Tannic Acids.

Boric acidav.oz.	1
Tannic acidav.oz.	11/
Glycerinfl.oz.	13

Mix the acids with the glycerin, heat on a water bath until dissolved, and strain.

#### Glycerite of Carbolic Acid.

Carbolic acid, crysta	lav.oz.	81/2
Glycerin	fl.oz.	123/
Warm the acid, add		

until mixed.—U. S. P. 1870.

### Glycerite of Creosote.

Creosotefl.oz.	11
Alcoholfl.oz.	2
Glycerinfl.oz.	5%
Waterfl.oz.	63
Magnesium carbonateav.oz.	1

Triturate the magnesium carbonate, alcohol

	L TREFARATION 3. 100
and creosote together in a mortar, add the water and the glycerin, put the whole in a bottle, let stand for several days and filter. The product represents about 10 per cent by weight of creosote, and may be used for making other preparations of this agent. <b>Glycerite of Chloroform.</b> Chloroformfl.oz. 114 Alcoholfl.oz. 1044 Glycerinfl.oz. 1044 Dissolve the chloroform in the alcohol, add	produced. Transfer the product to suitable vessels, provided with well-fitting covers U. S. P. <b>Greases.</b> Greases or fats, more properly termed "lards," may be found under the latter desig- nation. <b>Honey of Borax.</b> I. Borax powderav.oz. 2 Clarified honeyav.oz. 16
the glycerin, and shake well. The product represents 10 per cent by weight of chloroform.—D.	Mix and dissolve by the aid of a gentle heatU. S. P., 1870.
Glyceríte of Gallic Acid. (allic acid	II.       Borax
acid is dissolved, and strainBrit. Pharm.	Honey of Rose with Borax.
Glycerite of Guaiac.	• ·
Resin of guaiac, powdergr. 640	Honey of rose, U. S. Pav.oz. 10 Boraxav.oz. 1
Solution of potassa         f. oz.         1           Glycerin         f. oz.         91/2           Water, enough to make         16	Mix and dissolve borax by aid of a gentle heat.
Mix the solution of potassa with 5 fluid-	Honey of Rose with Salicylic Acid.
ounces of water, and in this liquid macerate the resin for 24 hours. Then filter, and pass	Honey of roseav.oz. 16 Salicylic acidgr. 140
enough water through the filter to make the	Triturate the acid intimately with a small
filtrate measure 61/2 fluidounces, and mix this	portion of the honey of rose, then add the
with the glycerinN. F.	remainder of the honey.
Glycerite of Lead Subacetate.	Honey of Rose with Tannic Acid.
Lead acetate	Honey of roseav.oz. 16 Tannic acidgr. 370 Triturate the acid intimately with a small
Mix all, boil together for 15 minutes, then	portion of the honey of rose, then add the
filter, and heat again until all the water has	remainder of the rose honey.
evaporated.—Brit. Pharm.	Hydromel. Honeyfl.oz. 1
This is of the same strength the solu-	Water
tion of lead subacetate U. S. P., and may be employed in making the diluted solution	Infusion of Buchu.
of lead subacetate.	1.
Glycerite of Starch.	Buchu
Starchav.oz. 1 Waterfl.oz. 1 Glycerinfl.oz. 6½, or av.oz. 8 To the starch, contained in a porcelain cap-	Mix, let stand in a covered vessel for 2 hours, then strain, and pass enough water through the strainer to make 16 fluidounces. U. S. P., 1870.
sule, add the water and glycerin, and stir until a homogenous mixture results. Then apply	II. Bushu ar 360
heat, gradually raising the temperature to a point between 140 and 144 degrees C., stir- ring constantly until a transparent jelly is	Buchu

### Infusion of Columbo.

#### I.

Columbo, cut small.....av.oz. 1/2 Distilled water, cold .....fl.oz. 16 Macerate for 2 hours and strain.-U. S. P.

1870.

II.	
Columbo, cut smallgr.	360
Distilled water, coldfl.oz.	1 <b>6</b>

Mix, let stand for half an hour, and strain. -Brit. Pharm.

#### Infusion of Gentian, Compound.

Gentiangr.	230
Bitter orange peel,	
Coriander, of eachgr.	57
Alcohol,	
Water, of each suffic	ient

Extract the drugs in the form of a coarse powder, by percolation, using as a menstruum a mixture of alcohol and water in the proportion of 1 part by volume of the former to 7 of the latter. The product should measure 16 fluidounces.—U. S. P., 1870.

### Infusion of Golden Seal, Compound.

Golden seal	gr. 240
Blue cohosh	gr. 240
Witch hazel bark	gr. 240
Alum	gr. 60
Water, boiling	fl.oz. 16
Honey	sufficient

Infuse the 3 drugs with the boiling water in the usual way, strain, add the alum, dissolve, and then add sufficient honey to sweeten. Used as wash for various forms of sore mouth, and as a gargle.—Eclectic.

#### Infusion of Matico.

- - .

Matico			т. 360
Distilled	water,	boilingfl.c	z. 16

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Mix, let stand in a covered vessel for half an hour, and strain.—Brit. Pharm.

## Infusion of Pink Root, Compound.

(Worm Tea.)

Pink root, bruisedav.oz. Senna, cutgr.	1/2
Senna, cutgr.	144
Fennel, bruisedgr.	144
Mannaav.oz.	31
Mannaav.oz. Water, boilingfl.oz.	16

Mix the above, let stand until cold, and decant the clear liquid.

Dose, 1 to 5 fluidounces.

### Infusion of Sage.

Sagegr.	240
Water, boilingfl.oz.	16
, 8	

Mix, let stand in a covered vessel for half an hour, and strain.-U. S. P., 1870.

#### Infusion of Sage, Compound.

Sage						 gr.	240
Hyssop						 gr.	240
Borax		 Ĵ		j		ør.	80
Water, boiling							

Infuse the drugs in the usual way with the water, strain, and dissolve the borax in the colature. Used as a mouth wash and gargle. —Eclectic.

### Infusion of Senna.

Sennagr.	<b>48</b> 0
Coriander, bruisedgr.	60
Distilled water, boilingfl.oz.	16

Mix, let stand in a covered vessel for 1 hour, and strain.—U. S. P., 1870.

#### Infusion of Tar. (Tar Water.)

Pine	tar	۰.																	.fl.oz.	4
Wate	r.	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	. fl. oz.	16

Mix, shake frequently during 24 hours, decant the supernatant liquid, and filter.— U. S. P., 1870.

#### Inhalation of Bromine, Netolitsky's.

Brominegr.	36
Potassium bromidegr.	36
Waterfl.oz.	15¥

Dissolve the potassium bromide in a very small portion of the water, then carefully counterbalance the vessel containing the solution on a small balance, then place the proper weights on the opposite par of the balance, and then drop the bromine from a dropper into the solution until equilibrium of the balance is again restored; now add the remainder of the water.

To inhale, place a small portion of the liquid on a sponge. This is used in cases of croup.

### Injection of Apomorphine, Hypodermic.

Apomorphine hydrochlorate.....gr. 2 Camphor water.....m. 100

Dissolve and filter. This solution should be prepared only as wanted for use.—Brit. Pharm.

### Injection of Curare, Hypodermic.

Reduce the curare to powder in such a way as to prevent it from coming in contact with the naked hand or any other portion of the body, add distilled water to form a thin paste, transfer to a small funnel plugged with absorbent cotton, and gradually pour upon it distilled water until 1 fluidram is obtained. --Brit. Form.

### Injection of Ergotin, Hypodermic.

### Injection of Morphine, Hypodermic.

Dissolve the morphine salt in 1½ fluidrams of water, and filter, adding through the filter enough water to make 2 fluidrams. If the morphine salt does not completely dissolve, add a drop or two of diluted acetic acid to the liquid before filtering.—Brit. Pharm.

### Jelly, Currant. (Currant Paste.)

Take fully ripe currants, either red or black. whichever may be wanted; put them into a preserving pan, bruise them and place them on the fire, stirring constantly with a wooden spatula until they become scalding hot. When reduced to a pulp, remove them from the fire and strain and express all the juice from them through a flannel filtering bag or a crash towel. Measure the juice into a very clean and bright copper basin, or, still better, a porcelain-lined basin; place upon the fire and boil for 10 or 15 minutes in order to evaporate some of the water; remove the scum, and add one pound of sugar for each pint of juice. Stir constantly with a wooden spatula until the sugar is dissolved; then remove the scum and immediately fill the jelly glasses, or other suitable vessels.

This is used in making throat lozenges of certain kinds, such as have been used in the London Throat Hospital under the direction of Dr. Morell Mackenzie.

### Juice, Elder. (Succus Sambuci. — Roob Sambuci. — Syrupus Sambuci. — Elder Berry Syrup.)

Take any desired quantity of freshly gathered elder berries, heat, with constant stirring, until they burst open, then express through flannel; evaporate the juice to a rather thick extract, and add to this powdered sugar in the proportion of 1 part by weight to every 9 parts by weight of the extract.—Austr. Pharm.

All application of heat must be over a water bath.

#### Juice, Huckleberry.

Huckle	ł	x	r	r	ie	s	i,				2			i.		ŝ	i			av.oz.	16
Water		1						2	à	į,	Ļ	2	5							.fl.oz.	8
Sugar .	•			è	ė				•	•	•	•				ŀ	•	•	•	av.oz.	1%

Heat the berries in a porcelain or enameled iron evaporating dish, on a water bath, for 1 hour, and express. Heat the residue for an hour with the water, express again, mix the two liquids, add the sugar and heat until dissolved. Strain through a fine cloth and then evaporate to thick extract. This is used sometimes, in domestic practice, in the treatment of the diarrhoga of children.—D.

Juice, Juniper. (Roob Juniperi.-Succus Juniperi.-Juniper Berry Syrup.-Syrupus Juniperi.)

Juniper berries, fresh, bruised.av.oz. 8 Water, hot.....fl.oz. 32

Mix, stir frequently during 12 hours, express, and evaporate the liquid to a thin extract.—Germ. Pharm.

In the absence of fresh berries this preparation may be made from the ordinary dried berries, by the use of a larger proportion of water and a longer period of maceration.

### Juice, Lemon, Artificial.

	av.oz.	
	carbonategr.	
Water	fl.oz.	$14\frac{1}{2}$

Mix the acid and potassium with the water, add the sugar when effervescence, then add the peel of a lemon; let stand for 24 hours, and strain.

II.	
Citric acidgr.	525
Distilled waterfl.oz.	14
Oil of lemondrops	10
Alcoholfl.oz.	
Dissolve the acid in the water and	the oil

### Kali Lemon.

 Tartaric acid......gr. 495

 Sodium bicarbonate......av.oz.
 1½

 Sugar.....av.oz.
 5½

 Spirit of lemon .....sufficient to flavor

### Kneipp's Remedies, Pastor.

Cough Tea (Hustenthee.) — Coltsfoot leaves, 20 parts; nettle leaves, 10 parts; equisetum, 10 parts; fennel, 5 parts; juniper herries, 5 parts; snake plantain, 5 parts; mallow flowers, 5 parts, linden blossoms, 5 parts; mullein flowers, 2.5 parts; fenugreek, 2.5 parts.

I clon Oil (Malefizoel). - Croton oil, 1 part; oil of sweet almonds, 6 parts.

HIGHI Purifying Tea (Blutreinigungthee). Elder flowers, 10 parts; elder leaves, 10 parts; dwarf alder root, 10 parts; sandalworkl, 10 parts; buckthorn bark, 10 parts; mistletoe, 10 parts; sloe blossoms, 5 parts, strawberry leaves, 5 parts; nettle leaves, 5 parts; juniper tops, 2% parts.

Momach Consoler (Magentrost). — St. John'swort leaves and flowers, 3 parts; millefoll, 1 part; juniper berries, 1 part; dog tone, 1 part; gentian root, 1 part; wormwood, 3 part; buckbean, 35 part; equisetum, 35 part; eve bulght, 35 part; little centaury, 35 part, peppermint oil, 1-10 part; alcohol, 60 p. c., 100 parts.

Wuchlhuberthee.—Aloes, 8 parts; fenugreek, 8 parts, fennel, 25 parts; juniper berries, 35 parts

Eve Hilght (Augentrost).—Extract aloes, 1 & part, fennel, 10 parts; eye-bright, 10 parts, dechol, 20 parts; water, 80 parts.

Dropsy Tea (Wassersuchtsthee).—Equisetum, 10 parts, dog rose, 20 parts; rosemary, 10 parts, chler root, 10 parts; sassaltas, 10 parts, rue, 5 parts; buckbean, 5 parts, uva urst, 5 parts; mistletoe, 5 parts; samdalwood, 0 parts, juniper berries, 5 parts.

Kucipp's Pills – Rhubarb, 40 grams; extract alocs, 40 grams; soap, 10 grams; juniper herries, 8 grams; fenugreek, 8 grams, dwart alder, 8 grams; fennel, 8 grams Make into 600 pills.

### Lard.

The adipose tissue adhering to the kidneys, mesentery and omentum of the hog is considered the source of the best lard. This is freed from all flesh, then cut into small pieces, removing, as far as possible, all bloody matter and the membranous tissue. Then heat in a tinned copper, porcelain, or enameled iron dish on a water bath until the fat is about all melted, and then strain.

### Lard, Anhydrous.

Lard may be made perfectly anhydrous by heating the preceding on a water bath for about 30 minutes with about one-twelfth its weight of anhydrous or dry sodium sulphate in very fine powder, then filtering through paper, using some system of hot filtration to maintain the lard in a liquid state.

Lard prepared in this manner remains "sweet" much longer than the preceding. -D.

### Lard, Balsamic.

Lard, freshav.oz.	16
Tolu balsamav.oz.	
Etherfl.oz.	1
Sodium sulphate, anhydrousav.oz.	11/2

Melt the lard and add it to the tolu dissolved in ether and the sodium.sulphate, heat the mixture on a water bath for 1 hour, stir constantly, and finally filter by hot filtration.—D.

#### Lard, Benzoated.

Benzoic acid.....gr. 70 Lard.....av.oz. 16

Melt the lard on a water bath and dissolve the acid in it.—Germ. Pharm.

This is different from the U. S. P. benzoinated lard, which is made by inclosing coarsely powdered benzoin in a piece of muslin, suspending in melted lard, and heating for 2 hours to a temperature not above 60 degrees C.

### Lards, Factitious.

Quite a number of fats of animals, commonly called "greases," are demanded of pharmacists. Some of these lards or fats cannot be obtained, or at least with great difficulty, and as a rule they are prepared artificially. The formulas given herewith

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will be found acceptable for preparing these	Liniment of Amber Oil, Compound.
" greases." Goose Grease or Oil. Olive oilfl.oz. 1 Lardav.oz. 4 Oil of nutmegdrops 4	Rectified oil of amberfl.oz. 3½ Oil of stillingiafl.oz. 3½ Oil of lobeliafl.dr. 10 Olive oilfl.oz. 7 —Eclectic.
Dog's Fat or Grease.	Liniment of Ammonia, Compound.
Olive oilfl.oz. 1	(Granville's Counter-Irritant.)
Lardav.oz. 3	Stronger water of ammoniafl.oz. 10
Castor Grease.	Spirit of camphorfl.oz. 4 Spirit of rosemaryfl.oz. 2
Lardav.oz. 1	
Tallow    av.oz.    1      Burgundy pitch    av.oz.    1	Liniment, Anodyne.
Castoreum powdergr. 20	Chloralgr. 120
Cat's Fat.	Camphor
Lardav.oz. 1	Chloroform fl.dr. 2
Oil of valeriandrop 1	Tincture of opium       f.dr. 1         Oil of sassafras       f.dr. 1
Rabbit Fat. Olive oilav.oz. 10	Oil of sassafrasfl.dr. 1 Soap liniment, enough to make fl.oz. 16
Lard	Dissolve and mix.
Beef suetav.oz. 8	
Yellow waxav.oz. 4	Liniment, Arnica.
Bear's Grease. Olive oilfl.oz. 4	Tincture of arnica       fl.oz.       4         Soap liniment       fl.oz.       12
Lardav.oz. 12 Benzoic acidgr. 60	Liniment, Black.
Melt the lard at a gentle heat, add the oil	Olive oilfl.oz. 6
and incorporate acid by stirring until uni-	Sulphuric acid
form.	Oil of turpentinefl.dr. 2
Other lards may be found under the head	Add the acid very gradually, and with con-
of "Oils," and "Suets."	stant stirring, to the olive oil, allow to cool, and add the oil of turpentine.—Eclectic.
Laudanum, Dutchman's.	· · · · · · · · · · · · · · · · · · ·
Passion flowersav.oz. 4	<b>Liniment of Camphor, Compound.</b> (Compound Tincture of Camphor.)
Rumfl.oz. 16	(Rheumatic Liniment, Tincture or Drops.)
Macerate for 7 days and express.	.,
Liniment, A B C.	Camphor av.oz. 2 Oil of origanumfl.oz. 1
Liniment of aconitefl.oz. 51/2	Oil of hemlockfl.oz. 1
Liniment of belladonnafl.oz. 51/2	Oil of sassafrasfl.dr. 2 Oil of cajeputfl.dr. 2
Chloroform	Oil of turpentinefl.dr. 1
Glycerin	Powdered capsicumav.oz
	Alcoholfl.oz. 15
Liniment of Aconite.	Mix, macerate for 7 days, and filter in a well-covered funnel.—Eclectic.
Fluid extract of aconitefl.oz. 10 Camphor ar 240	The British pharmacopœia also recognizes
Camphorgr. 240 Alcohol, enough to makefl.oz. 16	a "compound liniment of camphor," which
Mix the fluid extract and the alcohol, and	is directed to be prepared as follows:
in this mixture dissolve the camphor.—Brit.	Camphor
Pharm. modified.	Oil of lavender flowers
Tiniment of Acoustic Transmission	Stronger water of ammonia fl.oz. 834
Liniment of Aconite, Homeopathic.	Alcohol
Tincture of aconite, U. S. Pfl.dr. 4 Alcoholfl.oz. 8	Dissolve the camphor and oil in the alcohol and add the ammonia gradually to this solu-
Glycerin	tion with constant shaking.

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# Liniment of Camphor. (Camphorated Oil.)

Camphor, coarse powder.....av.oz. 6<sup>1</sup>/<sub>2</sub> Cottonseed oil .....fl.oz. 28

Introduce the camphor and oil in a suitable flask, apply a gentle heat by means of a water bath, loosely stoppering the flask during the operation, and agitate from time to time till the contents of the flask are dissolved.—U. S. P.

### Liniment, Cantharides.

Cantharides, powder ......av.oz. 21/4 Oil of turpentine.....sufficient

Digest the cantharides with 16 fluidounces of oil-in a closed vessel on a water bath for 8 hours, then strain and add enough oil through the strainer to make the colature measure 16 fluidounces.—U. S. P. 1880 and N. F.

#### Liniment of Capsicum, Compound.

Spirit of camphorfl.du —Ecle	
Oil of cinnamonfl.dr	. 5
Oil of origanumfl.dr	
Ammonia waterfl.oz	
Tincture of oplumfl.oz	. 2
Tincture of capsicum	i. 10

#### Liniment of Chloroform, Compound.

Chloroform							.fl.oz. 4
Oil of turpentine							. fl.oz, 4
Soan liniment							

### Liniment of Oroton Oil.

۱	'roton oll					,		•	. fl. oz.	2
(	il of turpe	ntine							, fl.oz.	14

### Liniment of Cajeput, Compound.

(4) of cajeput	4%
(4) of spearmint	4%
I tacture of opium	18
Swap liniment	181

### Linimont, Diurstie.

man humout		 	 .fl.oz.	2
A turning of digita			, fl. oz.	
A un ture of squill	 	 	. tl. oz.	2

### finiment, Huugarian.

A authorities, powder.							•		gr.	60
faulie, durid					•		•		gr.	60
Հույիս .						•	•	• •	gr.	240
An fast wet, hanised							•		gr.	240
ենես, ել լուլոլու և										240
Dilated with add										6
Վել դերի է է	,		•	•	•	•	•	fl.	0 <b>z</b> .	12

Mrs. all, university for 7 days and filter.

### (Camphorated Liniment of Mustard.

Volatile oil	of mustard	fl.dr.	2
Cottonseed	oil	fl.oz.	4

#### Liniment of Oils.

Oil of cedar	.fl.oz.	4
Oil of cajeput	. fl. oz.	4
Oil of cloves		
Oil of sassafras	fl.oz.	4
—1	Eclecti	c.

### Liniment of Oils, Compound.

Oil of origanum	.fl.oz. 4
Oil of hemlock	
Oil of cajeput	.fl.oz. 4
Camphor	
Capsicum, powdered	av.oz. 2

Mix, macerate for 7 days, agitating occasionally, and filter in a well-covered funnel.— Eclectic.

Liniment of Opium. (Anodyne Liniment.)

Tincture of opium	fl.oz. 8
Soap liniment	
-	-Brit. Pharm.

### Liniment of Opium, Ammoniated.

Soap liniment	fl.oz. 43
Compound camphor liniment	fl.oz. 4 3
Tincture of opium	fl.oz. 434
Belladonna liniment	fl.dr. 6½
Stronger water of ammonia	fl.dr. 61/2
Mir and filter Brit Form	

Mix and filter.—Brit. Form.

### Liniment of Petroleum, Compound.

Crude petroleumfl.oz.	12
Ammonia waterfl.oz.	
Tincture of opiumfl.oz.	
Camphorgr.	
Mix and dissolve.—Eclectic.	

### Liniment of Stillingia, Compound.

Oil of stillingia	fl.oz. 1
Oil of cajeput	
Oil of lobelia	fl.dr. 2
Alcohol	
	-Eclectic.

Liniment, Turpentine, Acid. (Brodie's Liniment.)

Sulphuric acid	fl.dr. 1
Olive oil	fl.oz. 1
Oil of turpentine	fl.oz. 1

Add the acid gradually to the olive oil, stirring in a mortar; when the mixture is cold, add the oil of turpentine. •

Liniment, Turpentine, Camphorated.	fine powder with the acid by percolation so
Oil of turpentine fl.oz. 4	as to obtain 16 fluidounces of product
Acetic acidfl.oz. 4	Eclectic.
Liniment of camphorfl.oz. 4	Lotion of Myrrh, Compound.
Other liniments are mentioned in Parts II	Myrrh, in coarse powdergr. 120
and V.	Zinc acetategr. 45
Liniment, Thymol.	Lead acetategr. 15 Water
Thymol	Pour 12 fluidounces of boiling water on the
Spirit of soapfl.oz. 134 Glycerin	myrrh, let stand for 1 hour, stirring fre-
	quently; strain, add the salts dissolved in 4
Dissolve the thymol in the spirit, add the	fluidounces of water, and then enough water
glycerin, and filter.—D.	to make 16 fluidounces of product, and strain
Lotion of Borax.	again, if necessaryEclectic.
I. Abercrombie's: Boraxgr. 800	Used as a collyrium.
Diluted acetic acid fl.oz. 8	Lotion, Red. (Red Wash.)
II. Copeland's:	Zinc sulphategr. 40
Borax	Compound tincture of lavender.fl.dr. 1
Rose waterfl.oz. 4 Orange flower waterfl.oz. 4	Waterfl.oz. 16 Cochineal, coloring, N. Fsufficient
III. Johnson's:	Lotion of Sodium Chlorate, Darling's.
Borax	Sodium chlorate
Chalk, precipitatedav.oz. 11/ Rose waterfl.oz. 4	Water
Alcohol	Lotion of Sulphur, Compound.
IV. Meig's:	(Taylor's Lotion.)
Borax	Sulphur, sublimedgr. 860
Morphine sulphategr. 6 Rose waterfl.oz. 8	Borax, powderav.oz. 2
•	Spirit of camphorfl.dr. 4 Glycerinfl.dr. 6
Lotion, Bromine, Glover's.	Water
Bromine	Dissolve the borax in the water, add the
Lotion, Capsicum, Griffith's.	spirit and then incorporate the mixture with
Tincture of capsicumfl.oz. 4	the sulphur previously triturated to a smooth
Spirit of camphorfl.oz. 4	paste with the glycerin.
Water of ammoniafl.oz. 2	Lotion of Tin Chloride, Nouche's.
Lotion of Ether, Compound.	Tin chloridegr. 8
(Evaporating Lotion.) Etherfl.oz, 3	Water fl.oz. 16
Alcohol	Lotion, White. (White Wash.)
Solution of ammonium acetatefl.oz. 8	Sulphurated potassa (sulphuret
Rose waterfl.oz. 7	of potash)gr. 60 Zinc sulphategr. 60
-Eclectic.	Water fl.oz. 4
Lotion of Lead Chloride, Tuson's.	Dissolve each in 2 fluidounces of water and
Chloride of lead	mix the two solutions.
Water, boilingfl.oz. 16	Marrow.
Lotion of Lobelia, Compound.	Take fresh marrow and heat on a water
(Herpetic Wash.)	bath until quite thoroughly melted, then
Bayberry barkgr. 120 Lobelia herbgr. 120	strain with expression, heat the liquid with a
Lobelia seed	small amount of anhydrous sodium sulphate
Yellow dock	for about 30 minutes, stirring frequently, and
Diluted acetic acidsufficient	filter by hot filtration.—D.
Extract the mixed drugs in moderately	A factitious article may be prepared by

melting 1 part of oil of theobroma and adding 2 parts of fresh lard.-H.

### Milk of Magnesia.

Magnesia,	calcined,	light	gr.	510
Glycerin			fl.oz.	31/2
Water			fl.oz.	11 1/2

Triturate the, magnesia with the water, adding it gradually, and then add the glycerin.-D.

It may also be prepared from magnesium sulphate and alkali solution as follows:

Magnesium sulphate, crystalparts	6
Water	0
Solution of potassasufficien	it

Dissolve, filter, heat to the boiling point, then gradually add, under constant stirring, solution of potassa enough to produce an alkaline reaction. Transfer the precipitate to a filter and wash thoroughly with hot water. Then, to the washed magma add sufficient cold water, previously deprived of air by boiling, to make the whole weigh 20 parts. One hundred parts contain 5 parts of anhydrous magnesia. It may also be prepared by the use of solution of soda. The alkali solution should be freshly prepared from pure materials.

### Mixture of Bloodroot, Compound.

Syrup of ipecac	fl.oz. 1
Syrup of squill	fl.oz. 1
Syrup of tolu	fl. oz. 1
Tincture of bloodroot	fl.oz. 1
Paregoric	. fl.oz. 1
8	

-Eclectic.

Mixture, A E. C (Chloroformum Mitigatum.)

Alcohol1		
Chloroform	by	volume
Ether		

#### Mixture, Castor Oil.

Castor oilfl.oz.	3
Oil of lemonm.	40
Oil of cloves drops	8
Simple syrupfl.dr.	6
Solution of potashfl.dr.	41/2
Orange flower water, enough	/-
to makefl.oz.	8

Mix the oils in a mortar, then incorporate one-third of the solution of potash and afterward the syrup, then an additional third of the solution of potash, then gradually onehalf of the orange flower water, the remain- when there is threatened collapse.

der of the solution of potash, and lastly sufficient solution of potash to produce the required volume.

### Mixture, Cajeput, Compound.

(Hunnis Drops.)

Oil of cajeput	.fl.oz. 1
Oil of cloves	.fl.oz. 1
Oil of peppermint	
Oil of anise	.fl.oz. 1
Alcohol	

This has been employed in Eclectic practice in the treatment of diarrhoea, cholera, etc.

### Mixture of Camphor, Compound.

Camphor water	.fl.oz.	5
Peppermint water	. fl. oz.	5
Spearmint water		
Paregoric		
-	Felect	ic

### Mixtures, Cholera or Diarrhœa.

I. Christensen's:

Chlorodyne fl.dr. 4 Paregoricfl.oz. 1
Tincture of opiumfl.dr. 2
Tincture of catechufl.oz. 1
Neutralizing cordialfl.dr. 10
II. Ebert's:
Solution of iron nitratefl.dr. 2

Deodorized tincture of opium ..., fl.dr. 2 Caraway water.....fl.dr. 4 Dose, from  $\frac{1}{2}$  to 1 teaspoonful after each

evacuation.

III. Greenhow's:

Guaiacgr.	240
Clovesgr.	
Cinnamongr.	240
Brandy fl.oz.	16

Macerate the drugs in moderately fine powder with the brandy for 7 days, and filter.-Eclectic.

The dose is from a teaspoonful to a tablespoonful, in sweetened water, every 15 or 20 minutes until relief is obtained.

IV. Hamlin's (1):
Tincture of opiumfl.oz. 1
Tincture of rhubarbfl.oz. 1
Spirit of camphorfl.oz. 1
V. Hamlin's (2):
Tincture of opiumfl.oz. 1
Tincture of gingerfl.oz. 1
Tincture of capsicumfl.oz. 1
Tincture of cardamomfl.oz. 1

This is used in the second stage of cholera

VT Hereite (Coult)	
VI. Harney's (Gen'l.):	with the Mist
Chloroformfl.oz. 1	Pharmacopœi
Tincture of opiumfl.oz. 1	XV. Velpeau
Spirit of cinnamonfl.oz. 1	Tincture of
Spirit of peppermintfl.oz. 2	Compound
Camphor, powdergr. 16 Syrup of gingerfl.oz. 2	Spirit of ca
, , , , , , , , , , , , , , , , , , , ,	-
Mix and dissolve.	Mixture, Co
VII. Loomis':	Tincture of
Tincture of opiumfl.dr. 4	(Radema
Tincture of rhubarbfl.dr. 4	Mucilage of
Compound tincture of catechu. fl.oz. 1	Cinnamon
Oil of sassafrasm. 20	Water
Compound tincture of lavender	Mintere To
enough to makefl.oz. 4	Mixture, Ir
N. F.	Tincture of
VIII. Rubini's:	macher's
Camphorav.oz. 1	Mucilage of
Hoffmann's anodynefl.oz. 2	Water
Dose: 2 to 5 drops on sugar every 20	Mixture of
minutes until relieved.	
IX. Rademacher's:	Fluid extra
Zinc acetate	Tincture of
Distilled waterfl.oz. 6	Brandy
Mucilage of acaciafl.oz. 1	Sodium bic
	Oil of clove
X. Ruschenberger's:	Simple syrt Water
Tincture of opiumfl.oz. 1	Water
Spirit of camphorfl.oz. 1	Mixture, St
Tincture of capsicumfl.oz. 1	
Spirit of peppermintfl.oz. 1	Magnesium Ferrous sul
Aromatic tincture of rhubarbfl.oz. 1	Diluted sul
Dose: 30 to 40 drops in water.	Syrup of w
XI. Scammon's:	Water, eno
Tincture of opiumfl.dr. 8	
Spirit of camphorfl.dr. 3	This is giv
Tincture of capsicum	taken after m
Diluted alcoholfl.dr. 1	Mi-turne III
XII. Squibb's:	Mixture, To
Tincture of opiumfl.oz. 1	(Mistur <b>a</b>
Tincture of capsicumfl.oz. 1	Ferrous sul
Spirit of camphorfl.oz. 1	Sodium pho
Chloroform	Quinine (al
Alcohol	Strychnine
XIII. Sun:	Sugar
Tincture of opiumfl.oz. 1	Diluted pho
Tincture of capsicumfl.oz. 1	Distilled wa
Tincture of rhubarb fl.oz. 1	Discolute al
Include of Inubard	Dissolve th
	drams of bo
	drams of bo
Spirit of camphor fl.oz. 1	drams of bo solve the sodi
Spirit of camphorfl.oz. 1 Spirit of peppermintfl.oz. 1 Mix them, and filter.	drams of bo solve the sodi of boiling di
Spirit of camphorfl.oz. 1 Spirit of peppermintfl.oz. 1 Mix them, and filter. XIV. Thielemann's:	drams of bo solve the sodi of boiling di solutions; col
Spirit of camphorfl.oz. 1 Spirit of peppermintfl.oz. 1 Mix them, and filter. XIV. Thielemann's: Wine of opiumfl.oz. 1	drams of bo solve the sodii of boiling di solutions; col with distilled
Spirit of camphor       fl.oz.       1         Spirit of peppermint       fl.oz.       1         Mix them, and filter.       XIV.       Thielemann's:         Wine of opium       fl.oz.       1         Tincture of valerian       fl.oz.       1/2	drams of bo solve the sodi of boiling di solutions; col with distilled tasteless; add
Spirit of camphor       fl.oz.       1         Spirit of peppermint       fl.oz.       1         Mix them, and filter.       XIV.       Thielemann's:         Wine of opium       fl.oz.       1         Tincture of valerian       fl.oz.       1½         Ether       fl.dr.       4	drams of bo solve the sodii of boiling di solutions; col with distilled
Spirit of camphor       fl.oz.       1         Spirit of peppermint       fl.oz.       1         Mix them, and filter.       XIV.       Thielemann's:         Wine of opium       fl.oz.       1         Tincture of valerian       fl.oz.       1 ½         Ether       fl.dr.       4         Oil of peppermint       fl.dr.       1	drams of bo solve the sodii of boiling di solutions; col with distilled tasteless; add the quinine a
Spirit of camphor       fl.oz. 1         Spirit of peppermint       fl.oz. 1         Mix them, and filter.       XIV.         XIV. Thielemann's:       Wine of opium         Wine of opium       fl.oz. 1         Tincture of valerian       fl.oz. 1½         Ether       fl.dr. 4         Oil of peppermint       fl.dr. 1         Fluid extract of ipecac       m. 15	drams of bo solve the sodii of boiling di solutions; col with distilled tasteless; add the quinine a phosphoric add
Spirit of camphor       fl.oz. 1         Spirit of peppermint       fl.oz. 1         Mix them, and filter.       XIV.         XIV. Thielemann's:       Wine of opium         Wine of opium       fl.oz. 1         Tincture of valerian       fl.oz. 1½         Ether       fl.dr. 4         Oil of peppermint       fl.dr. 1         Fluid extract of ipecac       m. 15         Alcohol       fl.dr. 1	drams of bo solve the sodii of boiling di solutions; col with distilled tasteless; add the quinine a phosphoric ac the sugar, dis
Spirit of camphor       fl.oz. 1         Spirit of peppermint       fl.oz. 1         Mix them, and filter.       XIV.         XIV. Thielemann's:       Wine of opium         Wine of opium       fl.oz. 1         Tincture of valerian       fl.oz. 1½         Ether       fl.dr. 4         Oil of peppermint       fl.dr. 1         Fluid extract of ipecac       m. 15	drams of bo solve the sodii of boiling di solutions; col with distilled tasteless; add the quinine a phosphoric ac the sugar, dis

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	L PREPARATIONS.	118
-	with the Mistura Thielemanni of the Swe Pharmacopœia.	dish
	XV. Velpeau's: Tincture of opiumfl.oz. Compound tincture of catechufl.oz. Spirit of camphorfl.oz.	2
	Mixture, Copper, Rademacher's.	
	Tincture of copper acetate, (Rademacher's)gr. Mucilage of acaciafl.dr. Cinnamon waterfl.oz. Waterfl.oz.	30 4 4½ 2¾
	Mixture, Iron, Rademacher's.	
	Tincture of iron acetate, Rade- macher'sfl.oz. Mucilage of acaciafl.oz. Waterfl.oz.	4
	Mixture of Soda.	
	Fluid extract of rhubarbfl.dr.         Tincture of cinnamonfl.dr.         Brandyfl.dr.         Sodium bicarbonategr.         Oil of clovesdrops         Simple syrupfl.oz.         Waterfl.oz.	2 4 2 30 2 8 4
	Mixture, Starton's.	
	Diluted sulphuric acidfl.dr. Syrup of wild cherryfl.oz. Water, enough to makefl.oz.	80 2 1 4
	This is given in teaspoonful doses t taken after meals.	o be
	Mixture, Tonic, Compound. (Mistur#Alterantiæ Composita.)	
	Sodium phosphategr. 2 Quinine (alkaloid)gr. ( Strychnine (alkaloid)gr. Sugarav.oz.	84 4 10 91/2
	Dissolve the sulphate of iron in 6 ff drams of boiling distilled water, also solve the sodium phosphate in $1\frac{1}{2}$ fluidou of boiling distilled water, and mix th solutions; collect the precipitate and wa	dis- nces nç 2
	with distilled water until the washings tasteless; add this precipitate together the quinine and strychnine to the dil phosphoric acid, shake until dissolved, the sugar, dissolve without heat and str	are with uted add

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•

### Mucilage of Irish Moss.

Irish moss.....gr. 192 Water, enough to make .....fl.oz. 16

Wash the moss with cold water, then place in a suitable vessel, add 16 fluidounces of water, and heat on a water bath for 15 minutes, frequently strain through muslin, and add enough water through the strainer to make the colature measure 16 fluidounces.— N. F.

### Mucilage of Linseed.

Linseed,	whole.	av.oz. 1	
Distilled	water,	hotfl.oz. 5	

Mix, macerate for 6 hours, stirring frequently, and strain.—D.

### Mucilage of Quince Seed.

(Mucilage of Cydonium.)

Quince seed,	whole	gr. 144
Distilled wat	er	oz. 16

Mix, macerate for one-half hour, stirring frequently, and strain without expression.— N. F.

### Mucilage of Starch.

Starch				•		• •		 •	gr.	192
Distilled	wat	er			 				fl.oz.	16

Triturate the starch with water gradually added until a smooth paste is formed, then boil for a few minutes, constantly stirring.— Brit. Pharm.

Other mucilages will be noticed in Part VII.

#### Oil, Angleworm.

Angleworms, freed from adherent dirt......part 1 Olive oil.....parts 2

Maccrate for 8 days in a warm place, then attain or filter.

### Oil, Anodyne.

Ammonia water	fl.dr.	81/2
Tineture of opium		
Oleo-balsamic mixture	.fl.dr.	10
Alcohol	.fl.dr.	12
Infused oil of henbane, enough		
to make	. fl. oz.	16

Qil Baunscheidt. (Compound Oil of Euphorbium.

Baunscheidt was a German charlatan who claimed to cure rheumatic and other diseases by means of what he called a "lebens-

.

wecker," i. e., "awakener" or "revulseur." This consists of a number of sharp-pointed needles set in a bed of hard rubber. By means of a spiral-spring arrangement these needles are driven into the skin over the seat of pain, not deep enough to draw blood, while into the wounds produced is rubbed the "Baunscheidt oil." This is an irritating substance and produces papular eruptions similar to those produced by croton oil. The effect is that of a powerful counter-irritant. In medicine this treatment is known as acupuncture. Formulas for the oil are as follows:

Euphorbium, powder.....gr. 160 Cantharides, powder.....gr. 96 Olive oil....fl.oz. 8

Macerate for 7 days and filter.-H.

Π.

I.

Euphorbium, powdergr.	140
Mezereum, cut finegr.	280
Cantharides, powdergr.	30
Alcoholfl.oz.	1
Etherfl.oz.	1%
Olive oilfl.oz.	8

Mix the two powders, alcohol and ether in a closed vessel, macerate for 7 days, agitating occasionally; then add the oil, macerate again for 7 days, strain, heat the colature gently so as to expel the ether, and filter.—H.

### Oil of Belladonna, Infused.

Prepare from belladonna leaves by the same process as infused oil of chamomile is prepared from chamomile.

#### Oil, Carminative. (Colic Oil.)

Oil of spearmint	fl.dr. 5
Oil of caraway	fl.dr. 21/2
Oil of cumin	fl.dr. 21/2
Oil of fennel	fl.dr. 21/2
Infused oil of chamomile,	
enough to make	fl.oz. 16
Nor	w. Pharm.

This is what is desired by Scandinavians when green oil is asked for, but Germans understand by this title the infused oil of henbane.

### Oil of Chamomile, Infused.

Chamomile, coarse powderav.oz.	3
Alcohol	214
Ammonia waterdrops	20
Olive oilfl.oz.	

Mix the alcohol and water, and incorporate

PHARMACEUTICAL PREPARATIONS.

1 1111111111111111111111111111111111111	
quickly with the chamomile, set aside in a closed vessel for 24 hours, then add the oil,	from the iron compound and thus facilitate its solution in the oil.—D.
heat for 12 hours at a temperature of 50 to 60 degs. C. and strain with expression.	This contains about $\frac{1}{2}$ per cent of ferric oleate.
Oil, Chloroform.	III.
Chloroform	Ferric chloride, sublimedgr. 195
Olive oil, enough to makefl.oz. 16	Cod liver oilfl.oz. 16
Oil, Cod Liver, Aromatized.	Triturate in a mortar until the iron salt is
Oil of lemon	dissolved, and, if necessary, filter.
Oil of peppermintdrops 8	<b>Oil, Cod Liver, with Iron and Iodine.</b> (Ferro-Iodized Cod Liver Oil.)
Vanillingr. 1 Coumarin	
Coumarin	Iodinegr. 30 Clean iron wiregr. 15 Cod liver oil, enough to makefl.oz. 16
volatile oils, with the aid of a very gentle	Triturate the iodine, iron and 6 fluidounces
heat, and mix the solution with the cod liver	of oil in a mortar with some ether until a
oil.—D.	black mixture results and the iodine and iron
Oil, Cod Liver, with Iodine. (Iodized	have combined; then add the remainder of
Cod Liver Oil.)	the oil and filter.
Iodine	The product contains 1/2 per cent of fer-
Chloroform	rous iodide.
Triturate the iodine with a few drops of	Oil, Cod Liver, with Malt Extract.
oil, then add the remainder of the oil and the	For cod liver oil with malt extract, refer to
chloroform, transfer the whole to a bottle,	Extract of Malt with Cod Liver Oil.
and agitate frequently until dissolved.	Oil, Cod Liver, with Phosphorus.
Oil, Cod Liver, with Iron. (Ferrated	(Phosphorized Cod Liver Oil.)
Cod Liver Oil.) 1.	This may be made by dissolving 4 grains
lron benzoategr. 68	of phosphorus in 16 fluidounces of cod liver
Cod liver oilfl.oz. 16	oil by the aid of a gentle heat.
Triturate the iron salt with the oil and	Oil of Conium, Infused.
warm gently until the former is dissolved.	This is to be prepared from conium herb
The product contains 1 per cent of the iron salt.	by the same process as infused oil of chamo-
II.	mile is prepared from chamomile.
Castile soap	Oil, Eel, Factitious.
Dialyzed ironfl.oz. 2½ Distilled watersufficient	Oil of sweet almondsfl.oz. 8 Castor oilfl.oz. 8 Cod liver oilfl.dr. 6
Sodium chlorideav.oz. 1 Cod liver oilfl.oz. 16	Oil of EggsH.
Dissolve the soap in 10 fluidounces of wa-	This is obtained by subjecting hard-boiled
ter by the aid of heat, also mix the iron solu-	yolk of eggs to pressure. About 1 fluid
tion with 9 fluidounces of water, add the	ounce of oil is thus obtained from 16 yolks
latter liquid gradually to the soap solution	The oil deteriorates very readily and must be
(when cold), stirring constantly. Collect the precipitate without washing; place between	preserved in dram-vials in a cool, dark place
folds of filter paper until tolerably dry, place	A factitious article may be prepared as fol-
in a porcelain or enameled iron evaporating	lows:
dish with the salt and iron, heat on a water	Olive oilfl.oz. 1214 Cacao butterav.oz. 214
bath until solution takes place, and filter.	Yellow waxav.oz.
The object of the salt is to abstract water	Melt together on a water bathH.

It may often be replaced by olive, sweet Ointment, Aconitine. almond or other similar bland fixed oil.

#### Oil of Henbane, Infused.

This is to be prepared from henbane leaves by the same process as infused oil of chamomile is prepared from chamomile.

### Oil of Lilies.

Oil of berga	amot			 	irops	16
Cottonseed	oil,	blead	ched	 	fl.oz.	16

### Oil, Rainworm, Artificial.

Oil of	birch	1 tar				 .fl.dr	. 5
Benne	oil,	enough	to	make		 fl.oz.	16

### Oil of Rhodium, Factitious.

I.	
Oil of rosefl.dr.	1
Oil of copaibafl.oz.	21/2
II.	
Oil of rosedrops	10
Oil of sweet almondfl.dr.	4
Balsam of copaibafl.dr.	
III.,	
Oil of rosefl.dr.	1
Oil of sandalwoodfl.oz.	2%

### Oil, Skunk.

Lard oi	1.		*	 		 		å			fl.oz.	8
Lard		4			 -	 			+		av.oz.	8
Animal	oi	1			 		 				drops	5

#### Oil of Spike. (British Oil.-Black Oil.) I. . . ...

5	
5	
14	
2	
	10 5 5 5 5 14 2

#### Oil of Stramonium, Infused.

This is to be prepared from stramonium leaves by the same process as infused oil of chamomile is prepared from chamomile.

### Oil of Wormwood, Infused.

This is to be prepared from wormwood by the same process as infused oil of chamomile is prepared from chamomile.

### Ointment of Aconite.

Extract	to:	aconite						.av.oz.	1
Simple	oin	tment				 		.av.oz.	2

Soften the extract with water or diluted alcohol and mix well with the ointment .-Eclectic.

Aconitinegr.	8
Alcoholdrops	32
Lard, benzoinatedav.oz.	1

Dissolve the aconitine in the alcohol and add the lard .- Brit. Pharm.

### Ointment Alkaline.

Potassium carbonategr.	120
Tincture of opiumfl.dr.	1
Simple ointmentav.oz.	1

Triturate the potassium salt to an impalpable powder, mix with the ointment, and then add the tincture.-Eclectic.

#### Ointment, Alkaline, Camphorated.

Potassium carbonate		
Camphor, powder	gr.	6
Lard	gr.	420

Warm the lard, add the camphor, stir well till dissolved, and mix the potassium carbonate.-Eclectic.

### Ointment, Ammoniacal.

Lardgr. 1	80
Suet	20
Oil of sweet almond	1
Stronger water of ammonia (28.	
per cent or concentrated) fl.dr.	6

Melt the lard and suet together, add the oil, and when the mixture is tolerably cool. pour it into a wide-mouth bottle, add the ammonia water, cork well, and shake occasionally until cold.-Eclectic.

Ointment, Antimonial. (Tartar Emetic Ointment.)

Tartar	emetic	 	.gr. 400
		-U. S.	P. 1870.

### Ointment, Astringent, Thompson's.

Witch hazel or sumach leaves ... av. oz. 1

Melt the suet, boil with the leaves for onehalf hour and strain.

Ointment, Bayberry. (Green Salve.)

Bayberry	plaster	 	.av.oz. 4
Olive oil.		 	fl.oz. 1

Melt the plaster, add the oil, and stir until cool.-Eclectic.

This may also be prepared from:

Bayberry wax							
Gum turpentine		• /	 -			 .av. oz. \$	3
Olive oil				 	*.	 . fl.oz. 1	L

### Ointment, Atropine.

Atropinegr.	8
Alcoholdrops	32
Lard, benzoinatedav.oz.	1

Dissolve the atropine in the alcohol and add the lard.—Brit. Pharm.

### Ointment of Boric Acid.

I. Lister's formula is as follows:

Boric acid, fine powdergr. 2	<b>40</b>
White waxgr. 2	<b>40</b>
Paraffin	80
Oil of sweet almondfl.oz.	

Triturate the acid to a smooth paste with a portion of the oil, melt the paraffin, wax, and remainder of the oil together, and add the previous mixture.

#### П.

Boric acid Petrolatum, white		.gr. 50 .gr. 450
M	C	

Mix thoroughly.—Germ. Pharm.

### IJ.

Boric acid.	•								•		•		•		•	•		•	.gr.	75
Petrolatum	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	.gr.	450

Mix intimately. -Brit. Pharm.

#### Ointment, Calamine, Rademacher's.

Camphor, powdergr.	110
Lithargeav.oz.	2
Armenian boleav.oz.	2
Lead-carbonateav.oz.	2
Calamine, preparedav.oz.	2
Yellow waxav.oz.	3
Lard	12

Mix the litharge, lead carbonate, bole and calamine to a smooth paste with a portion of the lard, also melt the wax, to it add the remainder of the lard, add the previous mixture, mix the whole thoroughly, add the camphor and stir occasionally until solid.

#### Ointment, Casein, Unna.

Casein	av.oz.	214
Potassium hydrate	gr	. 23
Sodium hydrate	gr.	5
Glycerin	.fl.oz,	1
Petrolatum	gr.	150
Zinc oxide	gr.	36
Carbolic acid	gr.	86
Water, enough to make		

Prepare the case in as follows: Take milk from which the cream or fat has been entirely removed, curdle it by the addition of rennet extract, at a temperature of 30 to 40 degs. C; collect the coagulum and wash with

running water or otherwise until the washings are no longer acid; dry carefully and powder.

Dissolve the alkalies in a portion of the water, and in this solution dissolve the casein; add the glycerin and carbolic acid, incorporate the petrolatum and zinc oxide, and finally the remainder of the water.

This is recommended by Unna as a vehicle to be used instead of fatty bodies for inunction.

#### Ointment of Conium.

Extract of conium......gr. 55 Simple ointment.....av.oz. 1

Soften the extract with water or diluted alcohol and add the ointment.—Eclectic.

#### **Ointment of Copper Subacetate.**

Yellow waxav.oz.	21
Lead plasterav.oz.	3%
Rosinav.oz.	1/2
Olive oilfl.oz.	81/2
Copper subacetate (verdigris)av.oz.	1/2
Olibanum, finest powderav.oz.	11/2

Melt the wax, lead plaster and rosin together and add 7½ fluidounces of the oil. Intimately mix the verdigris with the remaining oil to a smooth paste, add this mixture to the previous one, stir well, add the olibanum, and stir frequently until cool.

Another ointment containing verdigris and known as green ointment is the following:

Verdigris, powdered .....av.oz. 1 Resin cerate .....av.oz. 15

Add the powder to the ointment, previously melted at a gentle heat, and stir the mixture frequently until it concretes.

### Ointment, Creosote.

Creosote	fl.dr. 1
Lard	av.oz. 2
_	-Felectic

### Ointment of Gallic Acid.

Gallic acid.			.av.oz. 1
Benzoinated	lard		.av.oz. 9
		-U. S.	P. 1880.

### Ointment of White Hellebore.

White hellebore (veratrum al-	
bum), powderav.oz.	1
Lardav.oz.	4
Oil of lemondrops	10
Mix well.—Eclectic.	

Ointment	of	Iodine,	, Rademacher's.	,
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Iodinegr. 90	
Alcoholsufficient	
Lardav.oz. 4	

Dissolve the iodine in a little alcohol and add lard. The product contains about 4 per cent of iodine.

#### Ointment of Ipecac.

Ipecac, fine powderav	1.0z. 1
Olive oilf	
Lardav	r.oz. 2
Mix well.—Eclectic.	

Mix wen.—Deneeue.

**Ointment, Lead, Hebra's.** (Hebra's Diachylon Ointment.)

Lead plaster ......av.oz. 1 Olive oil.....fl.oz. 1

Mix at a gentle heat. Prepare only as needed.

According to the United States pharmacopœia lead ointment is scented with oil of lavender flowers. Sometimes the above ointment is made with linseed oil instead of olive oil.

### Ointment of Lead Carbonate, Camphorated.

Camphor, fine	powdergr.	23
Lead ointment	<b>a</b> v.oz.	1

Mix the camphor thoroughly with a portion of the ointment and then add the remainder of the ointment.—Germ. Pharm.

**Ointment, Marshmallow.** (Althæa Ointment.—Yellow Ointment.)

Turmeric, powdergr.	130
Lard	14 1/2
Yellow waxgr.	
Resingr.	

Digest the turmeric in the lard for half an hour over a water-bath, then add the beeswax and the resin previously melted together, melt the whole together, and strain the ointment.—Germ. Pharm.

## Ointment, Lead, Compound. (Mayer's Ointment.)

Olive oil	A.oz.	7
Gum turpentinea	v.oz.	1%
Yellow waxa	v.oz.	*
Butter, unsalteda		
Red leada	v. oz.	8
Honeya		
Camphor, powdera	v.oz.	1%
Male the men and turnentline term	1	

Melt the wax and turpentine together, add | well mixed.-Germ. Pharm.

the butter and oil, heat nearly to boiling, and add gradually, with constant stirring, the red lead; allow to cool, and when nearly cold add the honey and camphor, stirring until the latter is dissolved.—Eclectic.

### Ointment of Red Iodide of Mercury.

Red iodide of mercury ......gr. 60 Simple ointment.....av.oz. 1 —Brit, Pharm.

### Ointment, Mezereon.

Lard.....av.oz. 3 Yellow wax.....gr. 200 Fluid extract of mezereum...fl.oz. 1

Melt the lard and wax together over a water bath, add the fluid extract and continue heating until all the alcohol has dissipated, meanwhile stirring constantly; then remove the ointment from the source of heat and stir frequently until cool.—U. S. P. 1880.

### Ointment of Black Pepper.

Black pepper,	fine powder	• • • •	av. oz.	1
Pine tar				
Suet				
Lard			av. oz.	4

Melt the lard and tar together, then add the suet, and finally the pepper; stir frequently until cool.—Eclectic.

### Ointment of Poke.

Extract of pokegr.	
Simple ointmentav.oz.	1

Soften the extract with a little water or diluted alcohol and add the ointment.— Eclectic.

### Ointment of Potassium Sulphide.

Sulphurated potashgr.	
Sodium carbonategr.	
Lardav.oz.	· 1

Triturate the two salts to impalpable powder and then add the lard.—Eclectic.

#### Ointment, Rosemary, Compound.

(Unguentum Nervinum. — Aromatic Ointment.)

Yellow wax	.av.oz. 1
Mutton suet	. av. oz. 4
Lard	
Expressed oil of nutmeg	.av.oz. 1
Oil of rosemary	
Oil of juniper berries	.fl.dr. 4

Melt the wax and suet, add the lard and nutmeg oil, stir till melted, allow to cool, then add the two volatile oils, and stir until well mixed.—Germ. Pharm.

Ointment	of	Shepherd's	Purse	, Rade-
mache	r.	(Unguentum	Bursæ	Pastoris
Radem	ach	eri.)		

Shepherd's purse	herb, freshly	
gathered	av.oz.	8
Lard		16

Contuse the shepherd's purse to a pulp, add it to the melted lard, and carefully heat the mixture over a direct flame until the moisture has all evaporated.

### Ointment, Sulphur, Alkaline.

Sulphur, washedgr.	560
Potassium carbonategr.	280
Water fl.oz.	24
Benzoinated lard av.oz.	

water, add the other ingredients, and mix well.-U. S. P. 1880.

### Ointment of Sulphur, Compound.

Sulphurav.oz. White hellebore (Veratrum al-	1
bum), fine powdergr.	72
Potassium nitrate, powderedgr.	10
Soft soapav.oz.	1
Ointment of pokeav.oz.	
Oil of bergamotdrops	20

Mix well.-Eclectic.

### Ointment of Sulphur Iodide.

l		

Iodide of sulphurgr. 8	30
Benzoinated lardav.oz.	

Mix well. п

Sulphur	iodide	gr.	30
	umaa		
	-Brit.	Phar	m.

Ointment, Thompson's. (Thompson's

Salve.)	
Yellow waxav.	oz. 4
Butterav.	oz. 4
Gum turpentineav.	oz. 6
Balsam of firav.	oz. 8

### **Ointment** of Tobacco.

Extract of tobaccogr.	48
Simple ointmentav.oz.	4

Soften the extract with water or diluted alcohol and add the ointment.-Eclectic.

### Ointment of Wild Indigo.

Fluid extract of wild indigofl.oz.	5
Butterav.oz.	21/2
Beeswax	1
Tallow	1/2
Melt the fats together, add the fluid	ex-

tract, and continue heating carefully until all the alcohol and water have evaporated, meanwhile stirring frequently; allow to cool, stirring from time to time till nearly solid.-Eclectic.

Instead of the fluid extract of wild indigo, a corresponding amount of "solid" extract may be used; this should be softened with water or diluted alcohol after which the fats in melted state should be incorporated with it.

### Ointment of Witch Hazel.

	extract				
bark			 	. m.	50
Simple	ointmer	nt.	 	.gr.	410
-			Brit	Pha	

Dissolve the potassium carbonate in the Ointment, Zinc, Compound. (Wilson's Ointment.)

Zinc oxideav.oz.	4
Benzoin, fine powderav.oz.	1
Lardav.oz.	15

Rub the zinc oxide and benzoin together, add to the lard, heat the whole on a water bath for one hour, stirring constantly; then strain, and allow to cool with frequent stirring.

### Ointment of Zinc Oxide, Compound.

Olive oilav.oz.	4
Spermacetiav.oz.	2
White waxgr.	
Zinc oxideav.oz.	
Benzoic acidgr.	20
Morphine sulphategr.	8
Oil of rosedrops	8

Triturate the zinc oxide, benzoic acid, morphine sulphate and olive oil to a smooth paste, add this to a melted mixture of the wax and spermaceti, stir almost constantly till cool, and then add the oil of rose.--Eclectic.

### Ointment of Zinc Sulphate.

Zinc sulphate.....gr. 70 Simple ointment ......gr. 420 Rub the zinc sulphate to an impalpable powder and add the ointment.-Eclectic.

The original contained fresh butter instead of the ointment and the former may be used if desired.

Other ointments will be noted in Parts II and V.

#### Oleate of Morphine.

	(alkaloid)	
Oleic acid	f	l.oz. 4
Triturate	the morphine to fine	powder,

add to the oleic acid, and dissolve by the aid of a gentle heat. The above makes a preparation containing 5 per cent of alkaloid. If stronger prepara- tions are desired, relatively greater propor- tions of alkaloid must be used. A 10 per cent oleate, for instance, would require the use of 175 grains of morphine. <b>Oleate of Strychnine.</b> Strychnine (alkaloid)gr. 35 Oleic acidfl.oz. 4 Triturate together, dissolving by the aid of a gentle heat, if necessary. The product contains 2 per cent of strych-	Pills, Anti-Canker, Thompsonian.         Each pill should contain:         Iron subcarbonategr. 2½         Extract of coniumgr. 2½         Pills, Anti-Catarrhal, Andrews'.         (Anti-Grippe or Yellow Pills.)         Each pill should contain:         Quinine salicylategr. 1         Arsenious acidgr. 1.         Extract of belladonna leavesgr. 1.         Pills, Anti-Constipation, Carson's.         Each pill should contain:         Extract of cascara sagradagr. 1         Extract of rhubarbgr. 1
nine.	Extract of aloingr.
Oxymel. Acetic acid	Pills, Anti-Constipation, Fothergill's.         Each pill should contain:         Strychnine         Aloes         gr. 14         Black pepper         gr. 14         Extract of cascara sagrada         gr. 13
Paste, Carbolic, Lister's.	Pills, Arsenic, Hebra's.
Carbolic acid, crystalav.oz. 434 Olive oilfl.oz. 10 Prepared chalksufficient Dissolve the acid in the oil and add suffi- cient chalk to make a soft paste.—D.	Each pill should contain: Arsenious acidgr. Extract of licorice, driedgr. Licorice wood, powdergr. Mucilage of acacia sufficient to form mass. Roll in lycopodiumD.
Paste, Lassar's.	Pills of Camphor, Compound.
Salicylic acid	(Cholera Pill.) Each pill should contain: Camphorgr. 1 Opiumgr. 1
Paste, Wax.	Kinogr. 1
Yellow wax.         av.oz.         4½           Cocoanut oil         av.oz.         1½           Lanolin         gr.         270           Borax, powder         gr.         70           Distilled water         fl.oz.         9½	Capsicumgr. 1 Confection of rose, sufficient to form a mass. Pills, Cook's. Each pill should contain:
Melt the wax, add the oil, and then the	Rhubarbgr. 1
lanolin, and after allowing to cool somewhat	Aloes
incorporate the borax dissolved in the water.	Soap, powderedgr ¥
This is used as an ointment vehicleD.	Pills, Gout, Lartigue's.
Physic, White Liquid. (Dow's Physic.)	Each pill should contain:
Sodium sulphateav.oz. 4 Water	Extract of colocynth, compoundgr. 4 Extract of digitalisgr. Extract of colchicum rootgr. Pills, Tonic, Aiken's. Each pill should contain:
Dissolve the sodium sulphate in the water, filter, and add the other ingredients.— Eclectic.	Quinine sulphategr. 1 Arsenious acidgr. 3 Reduced irongr. 3 Strychninegr. 4

-

Pills of Zinc Acetate, Bademacher's.

Each pill should contain:	
Zinc acetate	

#### Plaster, Bayberry. (Green Plaster.)

Gum turpentine Bayberry wax	
Melt together, strain, and stir	antil cool —
clectic.	

#### Plaster, Logan's.

E

Lead oxideav.		
Lead carbonateav.	oz.	2
Soap av.	oz.	11/2
Butter, fresh	gr.	240
Olive oilfl.		
Mastic	gr.	20

Mix the soap, oil and butter, add the lead oxide, and boil the whole gently for an hour and a half or until it has acquired a pale brown color, stirring constantly meanwhile; the heat may then be increased and the boiling continued till a portion of the melted plaster dropped on a smooth board is found not to adhere; then remove the vessel from the fire and add the mastic to the mixture.

### Plaster, Menthol.

### I.

Lead plaster												
Yellow wax				•	•	•	•	 		.av.	oz.	1
Resin								 		.av	oz.	1/2
Menthol												

Melt the plaster, wax and resin, strain and  $\Rightarrow$  the mixture cools, add the menthol.  $\Rightarrow$  pread the composition on cloth or leather. -D.

### 11.

Mentholav.oz.	814
Yellow wax	11/2
Resinav.oz.	114

Melt the resin and wax together, and as the mixture cools, stir in the menthol until dissolved.—Brit. Pharm.

The first plaster contains 10 per cent of menthol, the second 20 per cent.

#### Plaster, Miraculous, Rademacher's.

Red leadav.oz.	4
Olive oilav.oz.	
Amber, powdergr.	96
Camphor, powdergr.	60
Burnt alumgr.	30

Boil the lead and oil until a black plaster

is formed, allow this to cool somewhat, add the other ingredients and mix well.

Plaster, Resin, Compound. (Adhesive and Strengthening Plaster.)

Resinav.oz.	9
Beeswaxav.oz.	1
Camphorgr.	60
Oil of hemlockfl.dr.	
Oil of sassafrasfl.dr.	2
Oil of turpentinefl.dr.	1
Olive oilfl.dr.	

Melt the resin and wax together, allow to cool, and while still liquid add the camphor dissolved in the oils.—Eclectic.

### Plaster, Thapsia.

Yellow waxav.oz.	61/2
Resinav.oz.	21/2
Gum turpentineav.oz.	.214
Venice turpentineav.oz.	3
Glycerinfl.dr.	5
Honeyfl.dr.	5
Resin of thapsiagr.	510

Melt the first three ingredients and add the others, and stir until a plaster mass is formed.—Codex.

#### Pomade, Juniper.

I.

Lard	61/2
Paraffin waxgr.	240
White waxgr.	60
Oil of juniper berries fl.dr.	3
Fowler's solution fl.dr.	2

Melt the two waxes, then add the lard, remove vessel from the fire, add the other ingredients, and stir well until cold.—Eclectic.

### Powder, Antimonial, Tyson's.

Antimony oxideav.oz.	1
Calcium phosphateav.oz.	9
II.	
Antimony oxideav.oz.	1
Calcium phosphateav.oz.	41/2
Potassium sulphateav.oz.	41/2
These powders are given in doses of	5 or

These powders are given in doses of 5 or 10 grains.

### Powder, Arsenical, Come's.

Red sulphide of mercuryav.oz.	6
Arsenious acidav.oz.	2
Dragon's bloodgr.	260
Charcoal, animalgr.	175

Triturate together to a very fine powder.

140 IHE STANDAN	D FORMULARY.
Powder, Black. (Emmenagogue Powder.)	dry, and should then be well mixed.—Germ.
Sulphurav.oz. 1	Pharm.
Myrrh	Preserve in well-stoppered bottles in a dry
Steel filingsav.oz. 1	place.
Loaf sugarav.oz. 1 White winefl.oz. 4	Powder, Effervescing, with
Mix, and, by aid of a gentle heat, evaporate	Magnesia.
till nearly dry; pulverize the mass when cold.	I.
-Eclectic.	Tartaric acidav.oz. 1      Oil-sugar of lemonav.oz. 2
This is the formula as originally given.	Sugar, moderately fine powderav.oz. 3
The substance is best dispensed in pill form.	Magnesium carbonate
	Germ. Form.
Powder of Camphor, Compound.	Tartaric acidav.oz. 1
Tannic acid	Citric acidav.oz. 2
Kinogr. 120 Camphor	Sugarav.oz. 8 Magnesium carbonateav.oz. 4
Opium	
Each should be in fine powder and the	Prepare and preserve like the preceding.
whole should be well mixedEclectic.	
Powder of Charcoal, Compound.	Powder of Glycyrrhizin, Aromatic.
Wood charcoalav.oz. 4	Ammoniated glycyrrhizingr. 120 Oil of carawaydrop 1
Rhubarb	Oil of coriander
Sodium bicarbonateav.oz. 1	Oil of anisedrops 2
All should be in fine powder and the whole	Oil of cassiadrops 2
well mixed.—Eclectic.	Adapted for disguising taste of quinine in
Powder, Cough, Thompsonian.	powder.
Lobelia herbav.oz. 2	Powder of Golden Seal, Compound.
Licorice root	Golden sealav.oz. 2 Blue cohoshav.oz. 2
Skunk cabbageav.oz. 2	Heloniasav.oz. 2
Sugar	Reduce to fine powder.—Eclectic.
All should be in fine powder and be well	Powder, Gun. (Pulvis PyriusPulvis
mixed.	Nitratis.)
Powder of Cypripedium, Compound.	Potassium nitrate
Refer to Compound Powder of Ladies'	Charcoalav.oz. 3
Slipper.	Sulphur 2
Powder, Dover's, Camphorated.	When gunpowder is required for veterinary
(Beach's Diaphoretic Powder.)	recipes, it may be prepared extemporane-
Opium	ously according to this formula.
Ipecac	Powder, Gun, White.
Camphor	Potassium ferrocyanideav.oz. 1
Potassium bitartrateav.oz. 2	Sugar
All should be in powder and should be	Potassium chlorateav.oz. 2
well mixed.—Eclectic.	Reduce each to powder separately, then
Powders, Effervescent.	mix well, but very carefully, using a bone or
See Effervescent Salts.	wooden spatula.
Powder, Effervescing. (Pulvis Aero-	Powder of Ladies' Slipper, Compound. (Nerve Powder.)
phorus.)	Ladies' slipperav.oz. 2
Sodium bicarbonateav.oz. 21/2	Pleurisy rootav.oz. 2
Tartaric acid         av.oz.         214         sugar         av.oz.         414         sugar         av.oz.         414         sugar         av.oz.         414         sugar         sugar	Skunk cabbageav.oz. 2
	Scullcap av.oz. 2
All should be in fine powder and perfectly	Reduce to fine powder.—Eclectic.

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.

#### Powder of Ipecac, Compound.

Ipecacav.oz.	2
Pleurisy rootav.oz.	2
Blood root	
Potassium nitrateav.oz.	2

Reduce to fine powder.-Eclectic.

This preparation is, of course, not to be confused with the official Dover's powder which was at one time known by the name "Pulvis Ipecacuanhæ Compositus."

#### Powder, Laxative, Gregory's.

Ginger			
Rhubarb			
Magnesium c	arbonate	 av.	oz. 8

Each should be in fine powder, and the whole should be mixed intimately.

Dose, one-half to one teaspoonful.

### Powder, Nephritic, Rademacher's.

Cochineal,	powder	av.oz.	1
Calcined n	nagnesia	av. oz.	4

### Powder, Nerve, Thompsonian.

This is powdered cypripedium or ladies' slipper root.

### Powder of Opium, Compound.

Opium	¥ (gr.	<b>32</b> 8)
Black pepper	.av.oz.	1
Ginger	.av.oz.	214
Caraway	.av.oz.	- 3´-
Tragacanth	gr.	110

All should be in powder and should be well mixed.—Brit. Pharm.

### Powder of Phosphates, Compound.

Sodium phosphategr	. 240
Precipitated calcium phosphategr	240
Precipitated iron phosphate gr	240
Sugar, powder	. 490
caga, powder	. 400

Expose the sodium phosphate to heat, in a porcelain dish, until the water of crystallization is dispelled, then add the other ingredients and mix well.

### Fowder of Pink Boot, Compound. (Entozoic Powder.)

D' 1	
Pink rootav.oz.	1
Bitter root (dogsbane)av.oz.	1
Swamp milkweed (Asclepias	
incarnata)av.oz.	1
Podophyllumav.oz.	
Balmony	2

All should be in fine powder and the whole well mixed.—Eclectic.

### Powder of Pleurisy Boot, Compound.

Pleurisy rootav.oz.	8
Spearmintav.oz	. 2
Sumach berriesav.oz	. 2
Bayberry bark	. 1
Skunk cabbageav.oz	. 1
Gingerav.oz	

All should be in powder and should be well mixed.—Eclectic.

### Powder of Podophyllin, Compound.

Podophyllin	•	•	•	•	•	•	•	•	•	•	•	•	•	•	.gr.	10
Cream of tartar	•	•	•	•	•	•	•	•	•	•	•	•	٠	•	.gr.	450

Mix well.-Eclectic.

### Powder of Podophyllum, Compound.

Blue flag	. av. oz.	2
Podophyllum		
Dogsbane (or bitter root) Swamp milkweed (Asclepias in-	av.oz.	
carnata)		2
Blood root		

Reduce to fine powder.-Eclectic.

### Powder of Quinine, Compound.

Quinine sulphateav.oz.	1
Iron ferrocyanideav.oz.	1
Reduce to fine powder.—Eclectic.	

#### Powder of Rhubarb, Compound.

(Neutralizing Powder.)

Rhubarbav.oz	. 4
Potassium bicarbonateav.oz	. 4
Peppermintav.oz	. 4

Each should be in fine powder and the whole should be well mixed.—Eclectic.

#### Powder of Senna, Compound.

Senna powderav.oz.	6
Cream of tartarav.oz.	
Scammony, powderav.oz.	8
Ginger, powderav.oz.	

### **Powder, Styptic.** (Red Powder.)

Iron sulphate, powdered.....av.oz. 2 Alum, powdered.....av.oz. 1

Mix them and apply strong heat until a reddish product is obtained; pulverize when cold.—Eclectic.

### Powder of Sulphur, Compound.

Sulphurav.oz.	<b>31</b>
Potassium bitartrateav.oz.	6%
Magnesium carbonateav.oz.	21
Sugarav.oz.	8 <u>1</u>
Oil of fennel fl. dr.	

#### **Rademacher's Preparations.**

Rademacher was a physician who lived about one hundred years ago in Germany. He entertained peculiar ideas regarding the practice of medicine, as well as the preparation and action of drugs. Many of his peculiar preparations are prescribed in this country by the older German physicians, and more recently some of them have been employed by physicians partial to the eclectic school.

This class of preparations includes the following:

1. Drops, Dysmenorrhœa.

2. Extract of Tobacco.

3. Mixture, Copper.

4. Mixture, Diarrhœa.

5. Mixture, Iron.

6. Ointment, Calamine.

7. Ointment, Iodine.

8. Ointment, Shepherd's Purse.

9. Pills, Zinc Acetate.

10. Plaster, Miraculous.

11. Powder, Nephritic.

12. Solution of Calcium Chloride.

13. Solution of Sodium Nitrate.

14. Solution, Anodyne Turpentine.

15. Tincture of Celandine.

16. Tincture of Cochineal.

17. Tincture of Colocynth.

18. Tincture of Copper Acetate.

19. Tincture of Golden Rod.

20. Tincture of Hips.

21. Tincture of Iron Acetate.

22 Tincture of Mary Thistle.

23. Tincture of Mugwort Root.

24. Tincture of Nux Vomica.

25. Tincture of Shepherd's Purse.

26. Water, Acorn.

27. Water, Castor.

28. Water, Nux Vomica.

29. Water, Quassia.

30. Water, Tobacco.

Formulas for making these preparations may be found elsewhere in Part I.

#### Resinoids.

Refer for these to Concentrations.

#### Salts, Effervescent.

The effervescent salts or powders, for which formulas are here given, are most conveniently and efficiently dispensed in the form of fine powders, because in this condition they can be made extemporaneously and with an assurance of their freshness and efficiency. The popular demand, however, seems to be

for granular effervescent salts, the preparation of which requires certain modifications of the formulas, important only in so far as they enable the dispenser to granulate the powder in a convenient and expeditious manner.

Effervescent powders or salts are composed of the medicinal agent in admixture with an alkaline bicarbonate, an organic acid, and sugar. The proportion of the medicinal agent is dependent upon its dose, that of the alkaline bicarbonate and of the organic acid is dependent upon their molecular relation to each other, while the proportion of sugar is dependent upon the quantity necessary as a sweetening agent and diluent.

The ingredients for making the fine pulverulent form of effervescent powders are: The medicinal agent, sodium bicarbonate, tartaric acid and sugar, and it is necessary that these be well dried before mixing them.

To make the granular form of effervescent salts the ingredients need not be dried, unless specially directed, and the ingredients are the same as for the pulverulent form, with the single exception that one-half the molecule of tartaric acid is replaced by one-half a molecule of powdered citric acid.

In order to facilitate the manufacture of effervescent salts, the new National Formulary recognizes three new preparations, viz.: saccharated citric acid, saccharated tartaric acid, and saccharated sodium bicarbonate.

Saccharated citric acid is prepared by mixing 5 av. ounces of citric acid with 3 av. ounces of sugar, each to be in very fine powder.

Saccharated tartaric acid is prepared by mixing  $6\frac{\pi}{4}$  av. ounces of tartaric acid with  $3\frac{1}{4}$ av. ounces of sugar, each to be in very fine powder.

Saccharated sodium bicarbonate is prepared by mixing 6 av. ounces of sodium bicarbonate with 2 av. ounces of sugar, each to be in very fine powder.

The ingredients of these preparations should be intimately mixed, and should be preserved in well-stoppered bottles.

The proportion of sugar in these saccharates is so adjusted that when either of the acid saccharates is mixed with an equal weight

of the alkaline saccharate, the acid and alkali are in molecular relation to each other, and, when dissolved in water, will form the neutral tartrate and citrate of sodium respectively.

With these three saccharates in stock, it becomes possible to make effervescent powders or salts quickly with any medicinal agent that may be prescribed, their use being exemplified by the following general formulas:

I. Fine Powder:

Medicinal agent, fine powder. .av.oz. 2 Saccharated sodium bicarbonate.....av.oz. 19 Saccharated tartaric acid.....av.oz. 19

Triturate the ingredients until a uniformly mixed powder is obtained. In order to insure permanence of the product, the ingredients should be well dried before mixing.

#### II. Granular Salt:

Medicinal agent, fine powder av. oz.	2
Saccharated sodium bicarbon- ateav.oz.	19
Saccharated tartaric acidav.oz.	
Saccharated citric acidav.oz.	912

Mix the ingredients (not dried) in a mortar, transfer them to an evaporating dish, and heat on a water bath, kept at 60 to 71 degrees C., under constant stirring with a wooden spatula, until dry and uniformly granular.

The saccharated citric acid, being made from crystallized citric acid containing one nuclecule of water of crystallization, supplies the moisture necessary to cause the powder, when heated, to cake and adhere together. If the somewhat pasty mass is then stirred with the spatula, small granules are readily formed, and these become firm when completely dried.

Another method of making the granular effervescent salts is to add to either of the above mixtures just enough alcohol to form <sup>a</sup> pasty mass, then rubbing this through a No. <sup>20</sup> porcelain colander, and drying the product in a drying room at a gentle heat. The alcohol used should be just sufficient to form a pasty mass, as an excess would make the drying require a longer period of time, and at the same time would prove a serious waste.

cent salts is recognized by the U.S. P., the heat method by the N. F.

It is, of course, not always that the proportion of the ingredients is the same as in the above general formulas. There may, for example, be more or less of the medicinal agent, and it may be necessary to add an extra amount of sugar. It is not necessary, either, to use any of the saccharates mentioned, the alkaline bicarbonate, acid, sugar and medicinal agent or agents.

Throughout the process of making these "salts," contact with metals should be carefully avoided. The mixtures should always be preserved in well-stoppered, wide-mouthed bottles.

The following formulas for effervescent salts are taken from standard works of reference:

### Caffeine, Citrated.

Caffeinegr.	110
Citric acidgr.	110
Sodium bicarbonateav.oz.	
Tartaric acidav.oz.	7%
Sugarav.oz.	834
To be menulated (secondian to II	C D)

To be granulated (according to U.S.P.) by the alcohol process. It may also be made according to the N. F., or heat, process. . It may also be dispensed in powder form.

### Carlsbad Salt, Artificial.

Saccharated sodium bicarbon-

.....av.oz. 10<del>1</del> ate.... . . . . . . . . . . Saccharated tartaric acid ..... av.oz. 10

Mix the ingredients, previously well dried, and triturate them until a uniform powder is obtained. If desired in the granular form, substitute saccharated citric acid, not dried. for one-half of the saccharated tartaric acid, and prepare the granulated compound as directed under the general formula.-N. F.

A solution of about 87 gr. of this preparation in 6 fluidounces of water represents an equal volume of Carlsbad water (Sprudel) in its essential constituents.

### Iron Citrate.

Iron pyrophosphate, solubleav.oz.	
Citric acidav.oz.	5
Sodium bicarbonateav.oz.	5
Sugarav.oz.	10

Triturate the iron salt to powder, add the other ingredients, mix thoroughly in a The alcohol method of making efferves- porcelain mortar, and gently heat the whole

(with mortar) on a water bath, triturating constantly until a moist mass is formed, which agglutinates sufficiently so it may be passed through a sieve. Then dry and bottle the product in the usual manner.-Germ. Form.

Iron citrate, solubleav.oz.	
Sodium bicarbonateav.oz.	
Tartaric acidav.oz.	
Citric acidav.oz.	
Sugarav.oz.	8
Alcoholfl.oz.	7

Reduce the iron salt to very fine powder, add the other solids in fine powder, mix well, warm slightly in an evaporating dish, moisten with the alcohol, and sift dry, and bottle in the usual manner.-D.

Properly speaking, the first " iron citrate " is not a citrate, but a pyrophosphate.

### Iron Citrate with Magnesia; or iron and magnesium citrate.

Iron citrate, soluble av.oz.	1
Magnesium carbonate	220
Sodium carbonate av.oz.	10
Tartaric acidav.oz.	
Citric acidav.oz.	11/2
Sugarav.oz.	
Alcoholfl.oz.	7

Prepare like the preceding .- D.

Iron and Quinine Citrate.

		and quinine.gr.	97
Saccharated	sodium		
ata		011 07	11

Saccharated tartaric acid ...... av. oz. 11

Mix the ingredients, previously well dried, and triturate them until a uniform powder is obtained. If desired in the granular form, saccharated citric acid may be substituted for one-half of the tartaric acid, then follow the rules of the general formula.-N. F.

Ninety gr. (or about a heaped teaspoonful) of this preparation represent about 1 gr. of citrate of iron and quinine.

#### Iron Phosphate.

Iron phosphate, soluble, very	-
fine powdergr.	215
Saccharated sodium bicarbon-	
ateav.oz.	10
Saccharated tartaric acid av on	10

Mix the ingredients, previously well dried, and triturate them until a uniform powder is obtained. If desired in the granular form, follow the rules of the general formula, substituting saccharated citric acid for one-half ate, and the remainder of the citric acid,

the saccharated tartaric acid, heating, etc.-N. F.

Ninety gr. (about a heaped teaspoonful) represent about 2 gr. of iron phosphate.

#### Iron Pyrophosphate.

See Iron Citrate above.

### Kissingen Salt, Artificial.

Artificial Kissingen salt ..... av.oz. 7 Saccharated sodium bicarbonate av.oz. 9 Saccharated tartaric acid ..... av.oz. 9

Mix the ingredients, previously well dried, and triturate them until a uniform powder is obtained. If desired in the granular form, follow the general formula by substituting saccharated citric acid for one-half the saccharated tartaric acid, heating, etc.-N. F.

A solution of about 80 gr. of this preparation in 6 fluidounces of water represents an equal volume of Kissingen water (Rackoczi springs) in its essential constituents.

#### Lithium Carbonate.

	av.oz. 2
	av.oz. 6
Alcohol	

Mix the solids, and moisten and sift in the regulation manner. Dry first at 20 degrees C., then increase the temperature to 40 degrees C., until perfectly dry.-D.

#### Lithium Citrate.

Lithium citrateav.oz. 2
Sodium bicarbonateav.oz. 6
Tartaric acidav.oz. 4
Milk sugarav.oz. 4
Sugar
Alcoholfl.oz. 9

Prepare like the preceding.-D.

#### Magnesium Citrate.

Magnesium carbonate.		v.oz. 21/2
Citric acid		v. oz. 11 1/2
Sodium bicarbonate		
Sugar		v.oz. 2
Alcohol Distilled water	of each a	

Mix the magnesium carbonate with 71/2 av. ounces of citric acid and 1 fluidounce of water. so as to form a thick paste. Dry this at a temperature not exceeding 30 degrees C., and reduce to fine powder. Then mix this intimately with the sugar, sodium bicarbondampen with alcohol, and granulate and dry. -U. S. P.

This preparation may also be prepared according to either of the N. F. processes, by mixing the powdered magnesium citrate, obtained in this formula, with the saccharates, and heating, if desired.

Magnesium Sulphate.

Magnesium sulphate, crystalav.oz.	25
Sodium bicarbonate	18
Tartaric acidav.oz.	
Citric acidav.oz.	6 <u>1</u>
Sugarar.oz.	5 <u>i</u>

Dry the magnesium salt at a temperature of about 55 degrees C., until it has lost mearly one-fourth (23 per cent) of its weight; powder the product, and mix with the sugar and other ingredients, all in fine powder. Then granulate the mixture by the heat method.—Brit. Pharm.

#### Pepsin.

Pepsin, pure, powdered.	дт. 150
Citric acid	
Tartaric acid	
Sodium bicarbonate	av.oz. 12 <del>1</del>
' Sugar	gr. 720

Make by the U. S. P. process, or it may be prepared by either of the N. F. processes.

#### Pepsin and Bismuth.

Pepsin, pure, powderedgr.	150
Citrate of bismuth and ammo-	
nium	150
Citric acidav.oz.	51
Tartaric acidav.oz.	41/2
Sodium bicarbonateav.oz.	12 🖌
Sugargr.	720
Presson like the pressuling	

Prepare like the preceding.

### Potassium Bromide.

Potassium powder			av.oz.	8
Saccharated	sodium	bicar	bon-	-
Saccharated	tartaric ac	:id	av.oz.	12

Mix the ingredients, previously well dried, and triturate them until a uniform powder is obtained. If desired in the granular form, follow the general formula by substituting sucharated citric acid for one-half the saccharated tartaric acid, heating, etc.—N. F.

Ninety gr. (or about a heaped teaspoonful) of this preparation represent about 10 gr. of potassium bromide. Potassium Bromide, with Caffeine.—N. F. Prepare this like the preceding, adding 131 gr. of caffeine to the above mixture.

#### Potassium Citrate.

Citric acidav.oz.	7
Potassium bicarbonateav.oz.	10
Sugarav.oz.	51

Powder the ingredients separately, and mix them thoroughly in a warm mortar. A pasty mass will be produced which may be granulated as described in the general formula.— U. S. P.

Sodium Citro-Tartrate.

Sodium bicarbonate	iv.oz. 81
Tartaric acida	w.oz. 41
Citric acida	iv.oz. 8
Sugar	iv.oz. 21/2

Prepare according to the general formula. -Brit. Pharm.

Sodium Phosphate.

Sodium phosphate, crystal av.oz.	12 1
Sodium bicarbonateav.oz.	
Tartaric acidav.oz.	
Citric acidav.oz.	41/2

Dry the sodium phosphate until it has lost 60 per cent of its weight, then powder, add the other ingredients, and complete the process as according to the preceding formula.—Brit. Pharm.

#### Sodium Sulphate.

Sodium sulphate, clear crystals.av.oz.	121
Sodium bicarbonate av.oz.	121
Tartaric acidat.oz.	61
Citric acidav.oz.	4%

Dry the sodium sulphate until it has lost rather more than one-half (56 per cent) of its weight, then add the other ingredients, and prepare the salt according to the preceding formula.—Brit. Pharm.

#### Vichy Salt, Artificial.

Artificial Vichy salt.....av.oz. 6 Saccharated sodium bicarbonate.av.oz. 9½ Saccharated tartaric acid.....av.oz. 9½

Mix the ingredients, previously well dried, and triturate them until a uniform powder is obtained. If desired in the granular form, follow the general formula by substituting saccharated citric acid for one-half the saccharated tartaric acid, heating, etc.—N. F.

A solution of about 57 gr. of this preparation in  $\theta$  fluidounces of water represents an equal volume of Vichy water (Grande Grille spring) in its essential constituents.

Vichy Salt, Artificial, with Lithiun	n.
Artificial Vichy saltav.oz.	4
Lithium citrate, very fine powder.gr.	650
Saccharated sodium bicarbon-	
ateav.oz.	
Saccharated tartaric acidav.oz.	10

Mix the ingredients, previously well dried, and triturate them until a uniform powder is obtained. If desired in the granular form, follow the general formula by substituting saccharated citric acid for one-half the saccharated tartaric acid, heating, etc.—N. F.

Ninety gr. (or about a heaped teaspoonful) of this preparation represent 14 gr. of artificial Vichy salt, and 5 gr. of lithium citrate.

#### Salt of Lemon, Artificial.

Oxalic acid	. av. oz.	4
Potassium carbonate	.av.oz.	2
Cream of tartar	.av.oz.	6

#### Salts, Mineral Water, Artificial.

See Part IV.

Salt, Sea, Artificial. (Sal Marinum.)

Sodium chlorideav.oz.	80
Magnesium chlorideav.oz.	11
Calcium chlorideav.oz.	2
Potassium bromidegr.	130
Potassium iodidegr.	88
Magnesium sulphateav.oz.	61/2
-	-D.

II. •	
Sodium chlorideav.oz.	80
Magnesium sulphateav.oz.	16
Calcium chlorideav.oz.	-81
Potassium iodidegr.	70
Potassium bromidegr.	35
	H.

#### Silk, Carbolated.

I. Lister's: White wax ......gr. 44 Carbolic acid, crystal.....av.oz. 1

Silk thread, strong (not dyed)...sufficient Mix the acid and wax by fusion, place

into the mixture as much of the thread as may be desired and allow it to remain until the mixture is cold. Then wipe off the excess of liquid from the thread by means of a cloth, and then preserve the medicated fiber in a mixture of:

Carbolic acid, crystalgr.	75
Glycerinfl.dr.	914
Alcoholfl.oz.	2
_	

II. Czerny:

Boil strong or thick silk thread (uncolored) in 5 per cent carbolic acid water, for from 10 minutes to  $1\frac{1}{2}$  hours, according to the thickness of the thread. For at the end of every half hour of boiling the water should be renewed. The fiber should be preserved in 2 per cent carbolic acid water.—D.

### Silk, Iodoform, Partsch.

Wind strong silk thread (uncolored) upon a glass spool, or other similar suitable object, and macerate for 2 days in a 10 per cent, solution of iodoform in ether. Then dry the fiber by exposing for a moment to the atmosphere, and preserve in well-closed glass bottles or jars.—D.

### Silk, Sublimated.

I.

Macerate strong uncolored silk thread for 24 hours in a 1 per cent solution of mercuric chloride in distilled water, then preserve in a solution of:

Mercuric chloridegr. 1	
Glycerinfl.dr. 8	
Alcoholfl.oz. 5	
	D.

II. Schede-Kuemmell:

Boil strong uncolored silk for 2 hours in a 1 per cent aqueous solution of mercuric chloride, and preserve in a one-tenth aqueous solution of the same agent.—D.

### Snuff, Catarrh.

Morphin Acacia, f Bismuth	ine pov	wder.	 	ğı	r. 180

Mix them intimately by trituration.-N. F.

### Snuff, Cephalic.

Sage	1
Lavender flowersav.oz.	1
Marjoramav.oz.	1
Wild gingerav.oz.	1
White helleboregr.	60

All should be in fine powder, and be well mixed.

#### Snuff, Menthol.

Mentholgr.	45 '
Sugar of milkav.oz.	1
Sugarav.oz. Coffee, roastedav.oz.	15
Boric acidgr.	90

All should be in fine powder and be well mixed.—H.

ş

### Snuff, Schneeberger.

#### I.

White helleboreav.oz.	2
Orris root, Bayberry barkof each, av.oz.	1
Starch	12
Oil of clovesdrops	20

The first four ingredients should be in the finest powder and the whole should be well mixed.

#### II.

Rice powderav.oz.	5 -
Canada snake rootav.oz.	1
White hellebore	34
Orris rootav.oz.	11/2
Oil of bergamot drops	4

 All should be in fine powder and should be well mixed.—H.

#### III.

Starch powderav.oz. 5
Orris rootav.oz. 3
Canada snake rootav.oz. 1
White helleboreav.oz. 1
Oleobalsamic mixturedrops 10

All should be in fine powder and should be well mixed.—H. modified.

Solution of Acid Phosphates. (Compound Solution of Phosphoric Acid.)

Ι.

Bone ash, fine powder.....av.oz. 17½ Sulphuric acid (sp. gr., 1.830) av.oz. 13¼ Water....fl.oz. 64

Mix the bone ash with 16 fluidounces of water, add the sulphuric acid, diluted with 32 fluidounces of water, and mix thoroughly with a porcelain or glass stirrer. Now add the remainder of the water and set the mixture aside for 24 hours, stirring occasionally. Then transfer the mixture to a strong muslin strainer, and subject this to a gradual pressure (avoiding contact with metals), so as to express as much of the liquid as possible. Lastly, filter this through paper.—N. F.

### II.

Calcium carbonate, precipitatedgr.	369
Calcined magnesiagr.	116
Potassium carbonategr.	151
Iron phosphategr.	64
Phosphoric acid, 85 per centfl.oz.	34
Water, enough to make fl.oz.	16

Mix the acid with 8 fluidounces of water, add the calcium carbonate gradually, with constant stirring; when effervescence has ceased, add the calcined magnesia in the same way and then add the potassium carbonate; finally add the remainder of the water, allowing the liquid to stand for several days, if possible, and filtering.

Solution of Aluminium Acetate. (Burow's Solution).

Acetate of	lead	 	av.	oz, 16
Potassa al	lum	 	av.	oz. 10
Sulphate	of soda	 	av.	oz. 1
Water		 	gal	lon 1
Discolus				

Dissolve the alum and soda in half the water; the lead in the other half; mix, filter.

Solution of Aloes and Soda, Mettauer's. (Mettauer's Laxative Aperient.)

Socotrine aloesgr.	300
Sodium bicarbonate av.oz.	11/2
Compound tincture of lavender fl.dr.	6
Waterfl.oz.	16
Macerate for 2 weeks, agitating occ	asion-

ally, and filter.

### Solution of Aluminum Chloride.

Dissolve the aluminum salt in 8 fluidounces of hot water, and the barium salt in 10 fluidounces of hot distilled water; mix the solutions, and heat the mixture on a water bath to about 70 or 75 degs. C.; then allow to cool, filter and pass enough water through the filter to make the product weigh 20 av.ounces.—D.

Instead of using barium chloride, calcium chloride may be used. In this case, however, the mixture of the two salts should be set aside in a cold place, for at least one week, in order that the excess of sulphate of calcium, not retained in solution, may separate. And when filtering the solution, it will hardly pay to wash out the small amount retained by the precipitate. Of course, when a solution of a definite strength is required, the first-mentioned formula should be used. But when the liquid is wanted as a disinfectant, the second method may be employed.

#### Solution of Ammonia, Anisated.

(Liquor Ammonii Anisatus.)

Oil of anise	 fl.dr	. 4
Alcohol		
Ammonia water	Austr. Pha	

I.

### Solution of Ammonium Benzoate.

Ammonium carbonategr. Benzoic acidgr.	
Distilled water, enough to makefl.oz.	16

Reduce the ammonium salt to powder, mix it and the acid in a capacious vessel, add the water, stir frequently until effervescence has ceased and solution is complete, and filter.

Each fluidram contains 10 gr. of ammonium benzoate.

### Solution of Ammonium Valerianate.

Ammonium valerianategr. 24	0
Borax, powdergr. 38	
Ammonia watersufficier	
Distilled water, enough to make fl.oz. 1	6

Mix the ammonium valerianate with 2 fluidounces of distilled water and add ammonia water, drop by drop, until a clear and slightly alkaline solution is produced; then add 4 fluidounces of water and the borax, stir the whole well, and when all or almost all has dissolved, add enough water to make 16 fluidounces, and filter.

This makes a tasteless and odorless preparation.

# **Solution of Annatto.** (Extract of Annatto.)

Annatto
Potassium carbonateav.oz. 4
Water sufficient

Boil the annatto and potassium carbonate with 16 fluidounces of water until the annatto is dissolved, then strain, and add enough water through the strainer to make the colature measure 16 fluidounces.

This preparation is employed for coloring purposes.

### Solution of Antimony, Chloride.

(Butter of Antimony.)

Black	sulphide	of	antimony,	
pure				6¾
Hydro	chloric ac	id	fl.oz.	32 -

l'lace the antimony compound in a porcelain or enameled-iron dish, add the acid, apply to the mixture at first a gentle heat which must be gradually increased, as the evolution of gas slackens, until the mixture boils. Continue boiling for 15 minutes, then remove the vessel from the fire, and filter the liquid through calico, returning that

which passes through at first until a perfectly clear liquid is obtained. Concentrate this by evaporation to 16 fluidounces, and preserve in a glass-stoppered bottle.—Brit. Pharm.

Owing to the fact that most of the black antimony of the market is very impure. great care should be exercised in the selection of a suitable article. This black antimony should be in fine powder. The boiling of the liquid should either be done under a good flue or in the open air, to avoid tainting the atmosphere of the room with the disagreeable odorous sulphuretted hydrogen gas.

### Solution, Antiseptic, Seiler's.

Sodium bicarbonategr.	240
Boraxgr.	
Sodium benzoategr.	10
Sodium salicylategr.	10
Eucalyptolm.	5
Thymolgr.	5
Mentholgr.	2:4
Oil of wintergreendrops	8
Glycerinfl.oz.	- 4¥
Alcoholfl.oz.	1
Distilled water, sufficient to	
makepints	8

Dissolve the salt in 64 fluidounces of water by the aid of heat, also the eucalyptol, thymol, menthol, and oil in the alcohol, mix the two solutions, add the glycerin and the remainder of the water, allow to stand for 24 hours, and filter.

Solution, Antiseptic, Lister's. (Lister's Antiseptic Fluid.)

Benzoic acid	gr.	64
Borax		64
Boric acid	gr.	
Thymol	gr.	20
Oil of eucalyptus	.drops	5
Oil of wintergreen	'drops	
Oil of peppermint	.drops	3
Oil of thyme (white)	drop	1
Fluid extract of wild indigo .	.drops	20
Alcohol	.fl.oz.	6
Distilled water	suffic	ient

Dissolve the two acids and borax by the aid of heat in 8 fluidounces of water, also dissolve the thymol and oils in the alcohol, mix the two solutions, agitating frequently during mixing, add the fluid extract, and then enough water to make 16 fluidounces; set aside for 24 hours, and filter through purified talcum.

130

1	1	•

• •	
Boric acidgr.	128
Thymol	20
Eucalyptoldrops	5
Oil of wintergreendrops	5
Oil of peppermintdrops	3
Oil of thyme, whitedrop	1
Fluid extract of wild indigom.	30
Alcoholfl.oz.	3
Distilled water, sufficient to	
make	16

Dissolve the acid in some of the water, add the other ingredients to the alcohol, dissolve, mix the two solutions, add the remainder of the water, let stand for 24 hours, and filter through purified talcum.

### III.

Boric acidgr.	128
Thymolgr.	16
Mentholgr.	16
Oil of eucalyptusdrops	4
Oil of wintergreendrops	4
Oil of horsemint drops	4
	12
Alcoholfl.oz.	4
Carameldrops 1 of	or 2

Dissolve the boric acid in the water and the other ingredients in the alcohol and mix the solutions; let stand for a day or two, shaking frequently, and filter.

#### Solution of Borax Comp. (Dobell's.)

Borate and bicarb. of soda, each.gr. Carbolic acid crystgr.	
Glycerinfl.oz.	
Add water, fl. oz. 16 and mix.	

### Solution of Bromine.

Brominegr.	
Potassium bromidegr.	140
Waterfl.oz.	16

In order to avoid inhaling the intensely acrid bromine vapor, the potassium bromide should be dissolved in a small portion of the water and this solution contained in a bottle be balanced on the "scales," and then the bromine may be dropped into the solution from a medicine dropper; the balance of the water should then be added.

This solution must not be confounded with the N. F. preparation, which is very much stronger. The latter is prepared as follows:

Bro Pot	mine assiv	m bro	nide	 • • • •	gr	. 480 . 240	
Wa	ter .	•••••	• • • •	 	. fl. oz	. 4	
-	-						

water contained in a bottle, add the bromine. and shake the mixture until this is dissolved. Keep the solution in glass-stoppered vials in a dark place.

### Solution of Calcium Chloride, Rademacher's.

Calcium chloride .....av.oz. 51/2 

Solution of Coal Tar. (Liquor Carbonis Detergens.—Liquor Picis Carbonis.)

Coal tarav.oz	. 4
Tincture of quillaja, N. Ffl.oz	
Alcoholfl.oz	. 8

Digest for 2 days, decant the clear liquid and filter.

#### II.

Ι.

Quillaja bark, coarse powder....gr. 450 Alcohol ......sufficient Prepared coal tar .....av.oz.

Extract the quillaja by percolation with the alcohol so as to obtain 10 fluidounces of product; to this add the tar, digest at a temperature of about 50 degs. C. for 2 days, allow to become cold, and decant the clear liquid or filter.-Brit. Pharm.

Prepared coal tar is made by placing commercial tar in a shallow vessel, and heating to a temperature of 50 degs. C. for 1 hour, stirring frequently .- Brit. Form.

### Solution of Cocaine Hydrochlorate.

Cocaine hydrochlorate .....gr. 66 Salicylic acid .....gr. 1 Distilled water, enough to make fl.dr. 12

Boil the water, add the acid, then the cocaine, cool, and add enough water to produce the requisite volume.-Brit. Pharm.

This solution is intended to contain approximately 10 per cent of cocaine hydrochlorate.

### Solution of Gold and Arsenic Bromides.

Arsenous acid .....gr. 19 Bromine water, Distilled water.....of each, sufficient

Introduce the arsenous acid and about 18 fluidrams of bromine water into a flask and heat gently until all free bromine has disappeared. Then add bromine water, 20 to 30 Dissolve the potassium bromide in the drops at a time, until it will be present in slight excess, or until the solution does not become colorless after some time. Transfer the solution to a porcelain capsule, expel the excess of bromine with the aid of gentle heat, dilute it with water to about 14 fluidounces. and dissolve in this the tribromide of gold, adding enough water to make 16 fluidounces.

Ten minims of this solution contain 1-32 grain of gold tribromide and the equivalent of 1-16 grain of arsenic tribromide.—N. F.

### Solution of Gutta Percha.

(Traumaticin.)

Gutta perchaav.oz.	1
Chloroformfl.oz.	61/2
Lead carbonate, fine powder av.oz.	1

Add the gutta percha to 5 fluidounces of chloroform contained in a closed bottle, and shake occasionally until solution has taken place. Then add the lead carbonate previously mixed with the remainder of the chloroform, and, having several times shaken the whole together at intervals of one-half hour, set the mixture aside until the insoluble matters have subsided and the solution has become perfectly clear. Lastly, decant the clear liquid and preserve in small, cork-stoppered bottles.—U. S. P. 1880 and N. F.

Purified gutta percha only should be employed in making this preparation.

### Solution of Hydrastis, Colorless.

(Glycerite of Hydrastine.)

۰.		
	Hydrastine hydrochlorategr.	25
	Aluminum chloride	23
	Calcium chloridegr.	20
	Magnesium chloridegr.	18
	Potassium chloridegr.	1/2
	Potassium chloridegr. Diluted hydrochloric acidm.	10
	Distilled waterfl.oz.	6
	Glycerin, enough to make fl.oz.	16

Dissolve the salts in the water, add the acid, then the glycerin, and filter.

II.

Hydrastis, fine powder av.oz. 171/2
Glycerin fl.oz. 8
Ether sufficient
Diluted sulphuric acidfl.dr. 1
Distilled waterfl.oz. 8

Exhaust the hydrastis with ether, recover the ether by distillation, to the residue add the water previously mixed with the acid, let stand 7 days, agitating frequently, decant

the aqueous solution, and mix it with the glycerin.

### Solution of Hypophosphites, Acid.

Calcium hypophosphitegr.	384
Sodium hypophosphitegr.	128
Potassium hypophosphitegr.	64
Iron phosphate, solublegr.	64
Hypophosphorous acid, diluted fl.oz.	3
Water, enough to makefl.oz.	16

Triturate the hypophosphites to fine powder and dissolve in 12 fluidounces of water; dissolve the iron salt in 1 fluidounce of hot water and add to previous solution; then add the acid, and after standing 24 hours, filter, adding enough water through the filter to make 16 fluidounces of product.

### Solution of Iodine, Caustic, Churchill's.

Iodinegr.	
Potassium iodideav.oz.	84
Waterfl.oz.	
Mix and dissolve N. F.	

#### Solution of Iodine, Caustic, Lugol's.

Iodine						
Potassi	um	iod	lide	 	 gr.	480
Water				 	 fl.oz.	3

Dissolve the potassium iodide in the water and add the iodine.

This is for application as a caustic.

### Solution of Iodine, Compound or Lugol's.

	gr. 3	
	odidegr. 7	20
	ater, enough to	
make	fl.oz.	16

Mix and dissolve. Keep the solution in glass-stoppered bottles.-U, S. P.

### Solution of Iodine, Magendie's.

Iodine								
Potassium	iod	lide		 	 	 	.gr.	240
Peppermin	nt w	rate	Γ,	 	 	 f	l.oz.	6

Dissolve the potassium iodide in the water and add the iodine.

### Solution of Iodine, Rubefacient, Lugol's.

		gr. 240
		gr. 480
Water	 	 .fl.oz. 6

Dissolve the potassium iodide in the water and add the iodine.

This is for external use,

### Solution of Iron and Ammonium Citrate.

Iron citrate, soluble......av.oz. 8 Distilled water, enough to make.fl.oz. 16 Dissolve and filter.

## Solution of Iron and Quinine Citrate.

Citrate of iron and quinine, soluble.....av.oz 8 Distilled water, enough to make fl.oz. 16 Dissolve and filter.

#### Solution of Dialyzed Iron.

Solution of iron chloride, U. S. P. ......fl.oz. 334 Ammonia water, Distilled water .....of each, sufficient

Mix 3 fluidounces of the iron chloride solution with 20 fluidounces of water and stir into the mixture sufficient ammonia water to impart a distinct ammoniacal odor. Collect the precipitate on calico or muslin, wash it with distilled water and squeeze the strainer to remove superfluous water. Add the precipitate to the remainder of the solution of iron chloride, stir thoroughly, warm gently, and when complete, or nearly complete, solution is effected, filter if necessary, place the liquid in a dialyzer, and dialyze in the usual manner until the liquid on the dialyzer is almost tasteless. Then add to this liquid enough water to make it measure 14 fluidounces.-Brit. Pharm.

Most of the so-called "dialyzed iron" of the market is not prepared by dialysis, but is made by a process the same or very similar to the one given under "solution of iron oxychloride."

#### Solution of Iron Oxychloride.

Solution of iron chloride, U.S.

Р	. 310
Water of ammoniafl.dr.	. 931
Hydrochloric acid, C. Pm.	
Distilled watersuffi	cient

Mix the iron chloride solution with  $5\frac{1}{2}$ fluidounces of water, and the ammonia water with  $10\frac{1}{2}$  fluidounces of water, add the iron solution gradually, with constant stirring, to the ammoniacal liquid, wash the precipitate thoroughly with water, collect it, press somewhat to remove excess of water, add it to the hydrochloric acid contained in a suitable vessel (a bottle), agitate frequently during 3 days, then warm until complete solution

.

has taken place, and then add enough water to reduce the solution to a specific gravity of 1,050.—Germ. Pharm.

#### Solution of Iron Phosphate.

Iron phosphate, soluble .....av.oz. 8 Distilled water, enough to make fl.oz. 16

Solution of Iron "Protoxide." (Solution of Iron Protocitrate.—Solution of Ferrous Citrate.)

Ferrous sulphate, pure .....av.oz. 8¼ Sodium carbonate, pure .....av.oz. 8½ Citric acid .....av.oz. 2 Distilled water, Simple syrup .....of each, sufficient

Dissolve the two salts separately in 32 fluidounces of water, mix by adding the iron solution to the sodium solution with constant stirring, collecting the precipitate, washing it quickly with more water, until the washings are tasteless, then dissolve by the aid of a gentle heat in 4 fluidounces of water containing the citric acid and add enough simple syrup to make 16 fluidounces.

#### Solution of Iron Pyrophosphate.

Iron pyrophosphate, soluble ...av.oz. 8 Distilled water, enough to make fl.oz. 16

### Solution of Iron Salicylate.

Ferrous sulphate, puregr.	192
Sodium salicylategr.	
Sodium acetateav.oz.	334
Distilled waterfl.oz.	8
Mix and dissolve.	

#### Solution of Magnesium Borocitrate.

Magnesium carbonate, powder..gr. 230 Citric acid .....gr. 460 Borax, powder .....gr. 460 Water, enough to make .....fl.oz. 16

Dissolve the citric acid in 15 fluidrams of water at a boiling temperature, then add the magnesium carbonate and afterward the borax; filter, and then add the remainder of the water.

The solution contains about 10 gr. of the dry magnesium borocitrate in each fluidounce.

## Solution of Magnesium Citrate.

Magnesium carbonategr.	225
Citric acidgr.	
Syrup of citric acidfl.oz.	2
Potassium bicarbonategr.	<b>38</b>
Distilled watersuffic	ient
Dissolve the acid in 4 fluidounces of	water,

add the magnesium carbonate, and stir until dissolved. Filter the solution, add the syrup and enough water to make 12 fluidounces, introduce the whole at once into a bottle, add the bicarbonate, and at once cork the bottle and tie it over securely with a stout twine.

II.

Citric acidgr.	360
Magnesia, calcinedgr.	105
Syrup of citric acidfl.oz.	1
Potassium bicarbonate, crystalgr.	
Distilled water, enough to	
makefl.oz.	12

Mix the acid, magnesia and 4 fluidounces of water, stir or agitate until dissolved, add the syrup and the remainder of the water, filter, introduce the clear filtrate into a suitable bottle, add the potassium salt, and cork and tie over the bottle immediately.

The above is intended for 1 bottle.

### Solution of Mercury Albuminate.

Egg albumen, freshgr.	900
Mercuric chloride, puregr.	60
Sodium chloridegr.	
Distilled waterfl.oz.	10

Beat the egg albumen to foam, allow this to become liquid again by standing, and then add to it a solution of the two salts in the water. Set the liquid aside for 2 days in a cool and dark place, and filter.

This preparation must be kept in the dark.-Germ. Form.

## Solution of Mercury and Arsenic

Iodides. (Donovan's Solution.)

I. Č	,
Arsenious acid, C. P	. gr. 16
Mercury	gr. 82
Iodine	gr. 102
	.fl.oz. 1
Distilled water	.sufficient

Triturate the arsenic, mercury, iodine, and alcohol together until a dry mass is obtained; then triturate with this mixture 141/2 fluidounces of water gradually added, transfer to a flask, heat to boiling, allow to cool, and filter, adding through the filter enough distilled water to make 16 fluidounces of filtrate.

This formula may be used by pharmacists who do not desire to carry a quantity of arsenic iodide in stock.

It is to be observed that under no consideration should the ordinary commercial im- in the form of citrate.-N. F.

pure powdered arsenious acid, so-called 'arsenic," be used.

### Solution of Mercury Chloride.

Mercury chloridegr. 2 Ammonium chloridegr. 2
Distilled waterfl.oz. 4
Dissolve and filterBrit. Pharm.

Solution of Mercury and Potassium Tartrate. (Liqueur de Pressavin.) Mercury oxide, freshly precipitated .....gr. 175

Potassium bitartrate......gr. 175 Distilled water, hot.....fl.oz. 16

Mix, dissolve and filter.

In using, mix 1 fluidounce of this with 32 fluidounces of water, and give a wineglassful 3 or 4 times daily.

#### Solution of Morphine.

I. Magendie's Solution: Morphine sulphate .....gr. 16 Distilled water, warm.....fl.oz.

Dissolve the morphine sulphate in the water, and filter the solution through a small pellet of absorbent cotton. When the solution is cold, pass a little distilled water through the cotton, if necessary, to make the filtrate measure 1 fluidounce. Keep the solution in well-stoppered vials, in a dark place.-N. F.

П.

Morphine sulphate	gr. 1
Distilled water	
—U. S.	P. 1870.

### Solution of Morphine Acetate.

Morphine acetate	9r. 9
Acetic acid, diluted	
Alcohol	fl.dr. 4
Distilled water	fl.dr. 12
_	Brit. Pharm.

Solution of Morphine Citrate.	
Morphine (alkaloid)gr.	16
Citric acidgr.	14
Cochinealgr.	
Alcoholfl.dr.	
Distilled water, enough to make fl.oz.	1

Triturate the solids with the alcohol and 10 fluidrams of water; filter and pass the remainder of the distilled water through the filter.

This solution should not be kept on hand, but prepared only when required.

Each fluidram contains 2 gr. of morphine

### Solution of Morphine Bimeconate.

Morphine (alkaloid)gr.	13%
Meconic acidgr.	12
Alcoholfl.oz.	1
Distilled water, enough to make fl.oz.	4

Add the morphine and acid to the alcohol, then add the water, dissolve by agitation, and filter through white paper.—Brit. Pharm. modified.

Solution	of	Morphine	Hydrochlorate.
1.			•

Morphine hydrochlorate gr. 1	9
Distilled waterfl.oz.	
Codex	ς.

II.	
Morphine hydrochlorategr.	9
Hydrochloric acid, dilutedm. 1	8
Alcoholfl.dr.	4
Distilled waterfl.dr. 1	2
—Brit. Pharm	<b>ı</b> .

## Solution of Potassa. (Liquor Potassa.)

Potassium hydrateav.	
Distilled waterfl.o	z. 16
Mix and dissolveU. S. P.	

### Solution of Potassium Acetate.

Acetic acid	.fl.oz. 1034
Potassium bicarbonate,	,,
Water of each,	sufficient

To the acid add  $2\frac{1}{4}$  fluidounces of water, add gradually  $6\frac{1}{4}$  av. ounces of potassium bicarbonate, heat the liquid to boiling, then neutralize by the further addition of the potassium salt, and then add enough water to make 16 fluidounces.—Germ. Pharm.

### Solution of Potassium Permanganate. I.

Potassium permanganate.....gr. 128 Distilled water.....fl.oz. 16

Mix and dissolve. Preserve the solution in a glass or rubber-stoppered bottle.

#### II.

Potassium permanganateg	r. 77
Distilled water	z. 16
—Brit. Ph	arm.

Solution of Bennet. (Liquor Seriparus. -Liquid Rennet. — Rennet Wine. — Essence of Rennet.) L.

Calves' rennet, freshav.oz.	114
Sodium chloridegr.	320
Alcohol	81
Waterfl.oz.	13

Dissolve the sodium chloride in the water.

add the alcohol, and macerate in this mixture the rennet (or the washed mucous membrane of the fresh stomach of a suckling calf), during 3 days, under frequent agitation; then filter.—N. F

II.

Rennet, fresh No	o. 1
Saltg	r. 480
Waterfl.o	z. 8
Diluted alcoholfl.o	z. 8
Sherry winefl.o	z. 16

Cut the rennet, knead together with the salt, and set aside for a day, then add the water and diluted alcohol, let macerate for several weeks, add the sherry wine and filter.

#### Solution of Saccharin.

Saccharin	gr.	512
Bicarbonate of sodium		
Alcohol		
Water, sufficient to make	.fl.oz.	16
Mix and dissolve. Each flu	idram	repre
sents 4 grains of saccharin.		

Solution of Strychnine Acetate. (Hall's Solution of Strychnine.)

Acetate of strychninegr.	1
Diluted acetic aciddrops	
Alcoholfl.dr.	2
Comp. tincture of cardamomdrops	5
Water, sufficient to make fl.oz.	1
Each fl. dr. has 1/8 gr. acetate strych	nine

### Solution, Turpentine, Anodyne, Rademacher's.

Spirit of etherfl.oz.	15
Oil of turpentinefl.dr.	81

Species, Alterative. (Swedish Blood-Purifying Tea.—Compound Species of Guaiac.—Species ad InfusumLignorum.) Licorice root, cut.....av.oz. 1½

Saponaria, cutav.oz.	31/2
Juniper root, cutav.oz.	6
Guaiacum wood, raspedav.oz.	9
-Swed. Pharm	1.

Species, Aromatic. (Aromatic Tea.-Species Resolventes.)

Peppermint, cut finea	v.oz. 2
Wild thyme, cut finea	v.oz. 2
Garden thyme, cut finea	v.oz. 2
Lavender flower,a	v.oz. 2
Cloves, cut finea	
Cubebs, coarse powdera	
—Germ. I	Pharm,

Ι.	
Wormwood, cutav.oz.	2
European centaury, cutav.oz.	2
Bitter orange peel, cutav.oz.	2
Buckbean, cutav.oz.	1
Calamus, cutav.oz.	1
Gentian, cutav.oz.	1
Cassia bark, cutgr. Austr. Pha	

### II.

The following is also known by the names Species Quassiæ Amaræ and Boecker's Bitter Tonic Tea:

Star anise, crushedav.oz.	2
Quassia, raspedav.oz.	4
Blessed thistle, cutav.oz.	4
-Swed. Pharm	

### Species, Carminative.

Anise	av.oz. 2
Fennel	av.oz. 2
Coriander	av.oz. 2
Caraway	av.oz. 2
-	-Codex.

### Species, Diuretic. (Diuretic Tea.) Ι.

Lovage root, cut	av.oz.	4
Restharrow root, cut	av.oz.	4
Licorice root, cut		
Juniper berries, crushed	av.oz.	4
Germ.	Pharm	n.

II. An older formula is this:

Licorice root, cutav.oz. 4	
Lovage root, cutav.oz. 3	
Rest harrow root, cutav.oz. 3	
Pansy herb, cutav.oz. 3	
Juniper berries, crushedav.oz. 3	
Parsley seedav.oz. 2	
Anise seedav.oz. 2	
D	

Species, Gargle. (Species ad Gargarisma.)

Elder flowers av.oz. 4	
Mallow flowers, cutav.oz. 4	
Marshmallow herb, cutav.oz. 4	
, H.	

Species, Laxative. (St. Germain Tea.)

Senna, cutav.oz.	8
Elder flowersav.oz.	5
Fennel, bruisedav.oz.	21/2
Anise, bruisedav.oz.	214
Potassium bitartrate, fine pow-	/-
derav.oz.	2

Moisten the senna with a small quantity of water; then sprinkle over it, as uniformly as has become dry, mix it lightly and uniformly with the other ingredients.-N. F.

#### Species, Long Life. (Species ad Longam Vitam.)

Aloes
Rhubarbav.oz. 1
Gentian
Zedoary
Galangalav.oz. 1
Myrrh
Agaric
Theriac

Reduce the first seven ingredients to small pieces, then rub the agaric to coarse powder, triturate the theriac with it and mix the whole.-D.

Species, Marshmallow. (Marshmallow Tea.—Species Althæa.) Marshmallow root, cut .....av.oz. 10 Marshmallow leaves, cut.....av.oz. 5 Licorice root, cut.....av.oz. 21/2 Mallow flowers (Malva sylvestris),

cut.....av.oz. 1 -Austr. Pharm.

### Species, Pectoral. (Breast Tea.)

Althæa, peeled	av. oz.	8
Coltsfoot leaves		
Licorice root, Russian, peeled	av.oz.	3
Anise	av.oz.	2
Mullein flowers	av.oz.	2
Orris root	av.oz.	2
Cut, bruise and mix themN.	F.	

(Saxon Tea.-Species Species, Saxon. Laxantes Schrammii.)

Senna, cutav.oz. 6	
Anise, bruisedav.oz. 2	
Fennel, bruisedav.oz. 2	
Red saunders, raspedav.oz. 2	

Species, Wood. (Species Lignorum.--Wood Tea.-Blood-Purifying Tea.) Guaiac wood.....av.oz. 5

Rest harrow, cutav.	5z. S
Licorice rootav.c	)z. 1
Sassafras wood, cutav.	oz. 1
-Germ. Ph	arm

### Spirit of Angelica, Compound.

Ι.	
Angelica root, cutav.oz.	- 21
Valerian, cutgr.	270
Juniper berries, bruisedgr.	
Alcoholfl.oz.	13
Waterfl.oz.	18
Camphorgr.	120

Macerate the roots and berries in the alcopossible, the potassium bitartrate. When it | hol and water for 24 hours, then distill off 16 fluidounces, and dissolve the camphor in the distillate.-Germ. Pharm.

#### II.

Oil of angelica rootdrops	12
Oil of valeriandrops	4
Oil of juniper berriesdrops	4
Camphor	
Alcohol, enough to makefl.oz.	
. 8	_11

# Spirit of Almond, Bitter.

Oil of bitter almondm.	80
Alcoholfl.oz.	124
Distilled watersufficie	

Dissolve the oil in the alcohol and add enough water to make 16 fluidounces.—U. S. P.

#### Spirit of Ammonia, Succinic.

Oleobalsamic mixturefl.oz.	8
Alcoholfl.oz.	3
Ammonia waterfl.oz.	4
Amber oil, rectifieddrops	10
	D.

#### Spirit of Cardamom, Compound.

Oil of cardamomdrops	12
Oil of carawaydrops	2
Oil of cassiadrops	1
Alcoholfl.oz.	4
Glycerinfl.dr.	
Water, enough to make fl.oz.	8

Dissolve the oils in the alcohol, add the glycerin, and then the water.—N. F

#### Spirit of Cinnamon.

Oil of cinnamon.	fl.dr.	13
	to makefl.oz.	
	_U S	

# Spirit of Cloves.

Oil of cloves		fl.dr.	121
Oil of cloves Alcohol, enough to	make	fl. oz.	16

Spirit of Ether, Camphorated. (Nerve Drops.)

Camphor	$\ldots$ av.oz. 11
Alcohol	fl.oz. 10 🖌
Ether	fl.oz. 4
	Swed. Pharm.

Spirit of Formic Acid. (Spiritus Formicarum.—Spirit of Ants.)

Formic acidfl.dr.	-214
Distilled waterfl.oz.	314
Alcohol, enough to makefl.oz.	

Mix the formic acid with the distilled water, and add the alcohol.

Formic acid for this preparation should have a specific gravity of 1.060 to 1.063.— N. F.

#### Spirit of Formic Acid, Compound.

Oil of lavender flowersm.	80
Oil of turpentinem.	
Spirit of formic acid, enough to	
make fl.oz.	16
	D.

# Spirit of Horse-Radish, Compound.

Horseradish root, fresh, scraped.av.oz.	2
Bitter orange peel, cut small and	
bruisedav.oz.	2
Nutmeg, bruisedgr.	
Alcohol fl.oz.	
Waterfl.oz.	14
	-

Mix and distill 16 fluidounces.—Brit. Pharm.

#### Spirit of Lavender.

Oil of laveno	ler flower	s	fl.dr.	61/2
Deodorized	alcohol,	enough	to	,-
make			fl.oz.	16
		-	-U. S.	Р.

#### Spirit of Lemon.

Oil of lemon.....fl.dr. 61/2 Lemon peel, freshly grated.....gr. 890 Deodorized alcohol.....sufficient

Dissolve the oil in 14 fluidounces of alcohol, add the peel, macerate for 24 hours, filter, and through the filter add enough diluted alcohol to make 16 fluidounces.— U. S. P.

### Spirit of Melissa. (Spirit of Balm.)

This may be prepared by distilling 4 av. ounces of melissa herb with 14 fluidounces of alcohol and 20 of water, so as to obtain 16 fluidounces of product.—D. modified.

It may also be prepared by dissolving 24 drops of oil of melissa in 12 fluidounces of alcohol and adding 4 fluidounces of water.

Spirit of Melissa, Compound. (Carmelite Spirit.— Aromatic Spirit.—Karmeliter Geist.)

Ι.	
Melissa herbgr.	450
Lemon peelgr.	<b>B84</b>
Nutmeggr.	192
Ceylon cinnamongr.	96
Clovesgr.	96
Alcoholfl.oz.	13
Waterfl.oz.	18

Mix all and distill off 16 fluidounces.— Germ. Pharm.

# Π.

A quicker and more convenient process is this:

Oil of melissa	.drops 18
Oil of lemon	.drops 18
Oil of nutmeg	.drops 12
Oil of cloves	.drops 12
Oil of Ceylon cinnamon	.drops 12
Alcohol, enough to make	. fl.oz. 16
	H.

Spirit of Mastic Compound. (Spiritus Matriculis.—Mutter Spiritus.)

Masticav.oz.	
Olibanumav.oz.	1
Myrrhav.oz.	1
Alcoholfl oz.	16
Water fl. oz.	8

Digest the gums with the alcohol, add the water and distill one pint.

#### Spirit of Rosemary.

Oil of rosemary	.fl.dr.	21/2
Alcohol, enough to make	. fl. oz.	16
	t. Phar	

Spirit of Rosemary, Compound. (Aqua Hungarica.)

Spirit of rosemaryfl.oz.	91/2
Spirit of lavender flowersfl.oz.	31
Spirit of sagefl.oz.	314

The spirits may be made from the respective oils and alcohol so as to contain 10 per cent of the former.—D. and H.

#### Spirit of Soap.

Castile soap, shavingav.oz. Alcoholfl.oz.	21/
Alcoholfl.oz.	91/2
Water, enough to makefl.oz.	16

Introduce the soap into a bottle, add the alcohol and  $3\frac{1}{2}$  fluidounces of water, cork the bottle, and immerse in hot water, frequently shaking. When the soap is dissolved, allow the bottle and contents to become cold, add the remainder of the water and filter.—N F.

# Spirit of Soap, Camphorated. (Liquid Opodeldoc.)

Spirit of camphor	. fl. oz.	4
Spirit of soap	.fl.oz.	11
Ammonia water	.fl.dr.	6
Oil of thyme, white	fl.dr.	1/2
Oil of rosemary	.fl.dr.	1
Mix and filterGerm. Pharm.		

Spirit of Thyme.

Oil of thyme, whitem.	45
Alcoholfl.oz.	12
Waterfl.oz.	4
Mix and filter -D.	

#### Sponge, Burnt, Artificial.

Sodium chloride	av.oz.	1/2
Ferric oxide	.av.oz.	1
Potassium iodide	av. oz.	1
Prepared oyster shell	av. oz.	3
Wood charcoal	av.oz.	4

Mix and reduce to fine powder.-H.

Prepared oyster shell is made by thoroughly cleaning the shell, then reducing in a mortar, separating the finer particles by elutriation and drying the latter.

#### Sponge, Carbolized.

Carbolic acid, crystalgr.	450
Alcoholfl.oz.	4
Waterfl.oz.	18

Bleached sponges are allowed to remain in this solution for 24 hours, when an equal volume of water is added. The sporges are to remain in the fluid.—D.

#### Starch, Iodized.

Starch		•	•	•			•					•			•	gr.	475	
Iodine											•		•		•	ğr.	25	
Water		 	 			 				•				. 5	su	iffic	ient	

Triturate the iodine with a little distilled water, add the starch gradually and continue trituration until a uniform blue-black product is obtained. Dry this at a temperature not exceeding 40 degrees C., rub to fine powder, and preserve in well-stoppered bottles.—U. S. P. 1880 and N. F.

Stone, Medicinal. (Lapis Medicamentosus.—Lapis Mirabilis.)

Alum
Lithargeav.oz. 3
Armenian boleav.oz. 3
Sulphate of iron, driedav.oz. 11/2
Diluted acetic acidav.oz. 2

Mix and evaporate to dryness.

#### Suet. (Tallow.)

Mutton suet is official in the United States pharmacopocia, but beef suet is also used. Either may be prepared by taking the fat from the vicinity of the kidneys of the sheep or cow, cutting into small pieces, heating on

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# PHARMACEUTICAL PREPARATIONS.

a water bath until the fat is guite melted and flannel. Dieterich recommends adding to the fatty matter in the dish 1-20 its weight of dried sodium sulphate in fine powder, continuing the heat for 15 minutes after thorough fusion has occurred, stirring frequently and filtering by hot filtration. The sodium sulphate removes moisture and assists in separating the membranes.

Beef suet has a slightly lower fusing point than mutton suet, otherwise the two are practically alike, so that one or the other may be selected, depending upon the use the product is to serve.

#### Suet, Benzoated.

Mutton suetav.oz.	10
Benzoin, coarse powder av.oz.	1
Sodium sulphate, driedav.oz.	1

Heat the three ingredients together on a water bath for one hour, stirring frequently, then strain through flannel or filter. The suet to be used should be such as has not already been treated with the dried sodium sulphate.-D.

#### Suet. Deer.

Beef tallow is usually dispensed for this. It is generally sold either in the form of flat cake or of cylinders about 1 inch in diameter.

#### Suet, Salicylated.

Salicylic acidgr.	70
Mutton suetav.lb.	8

Melt the suet on a water bath, add the acid, and dissolve by stirring.-Germ. Pharm.

Bugar, Coumarin.	(Elæosaccharum	Cu-
marini.)		
Coumarin	gr.	31/2
Sugar, fine powder	av.oz.	8′-

/**n**.

Mix well and keep in well-closed bottles. -D.

Sugar,	<b>Vanilla.</b>	(Elæosaccharum	Va-
nillæ	:.)		

Vanillaav.oz.	1
Alcoholfl.oz.	1
Sugar of milk, crystalav.oz.	2
Sugar, crystal (i. e. rock candy).av.oz.	7
Sugar, fine powder, enough to	
make	10

Cut the vanilla into very small pieces by then straining with expression through means of a shears or sharp knife, add the alcohol, macerate for 30 minutes, add the milk sugar, contuse until tolerably well reduced, add one-half of the rock candy, contuse and triturate until a tolerably fine powder is produced, sift through a No. 50 sieve, return the residue to the mortar, add the remainder of the rock candy, contuse, triturate, and sift as before, return the coarser particles to the mortar, and continue the trituration and sifting until nearly all has passed through the sieve; finally add the powdered sugar, mix well, and preserve in well-stoppered bottles.

> For general sale the above should be mixed with nine times its weight of powdered sugar. -D.

> Sugar, Vanillin. (Elæósaccharum Vanillini.)

Vanillin	gr	. 75
Sugar, powdered	av.oz	. 8

Mix well and preserve in well-stoppered bottles.-Codex.

This has about the same relative strength as vanilla sugar and may be employed in place of the latter.

Flavored sugars made with volatile oils should be prepared by intimately mixing 1 drop of oil with 30 grains of powdered sugar.-N. F.

They are properly known as oil-sugars or oleosaccharates (Latin: elæosacchara).

#### Syrup of Ammonium Chloride.

Ammonium chloride.....av.oz. 21/ Sugar .....av.oz. 11 Water, enough to make .....fl.oz. 16

Dissolve the ammonium salt in 10 fluidounces of water, add the sugar and the remainder of the water, dissolve by agitation and strain if necessary.

#### Syrup of Apomorphine Hydrochlorate.

Apomorphine hydrochlorate .	gr. 4
Hydrochloric acid, dilute	fl.dr. 11/2
Alcohol	. fl.dr. 512
Distilled water	fl.dr. 51/2
Simple syrup	fl.oz. 141/2
Mix the alcohol and water, add	the apomor-

phine to it, dissolve by agitation, add the acid and the syrup.-Brit. Form.

- Syrup of Aralia, Compound. (Compound Syrup of Spikenard.—Alterative Syrup.)
- Spikenard root.gr. 300Burdockgr. 300Yellow dockgr. 300Guaiacum woodgr. 300Sassafras barkgr. 240Prickly ash barkgr. 240Elder flowersgr. 240Blue flag rootgr. 240Glycerin,Diluted alcoholDiluted alcoholof each, sufficientSugarav.oz. 10

Mix the drugs and reduce to a coarse powder, extract in the usual way by percolation, with diluted alcohol; obtain 10 fluidounces of percolate in which dissolve the sugar by percolation and to this last percolate add, if necessary, enough glycerin to make 16 fluidounces.—Eclectic.

#### Syrup of Asafetida.

Asafetida, select gumgrs.	240
Boiling waterfl.oz.	
Sugar	1314

Rub the gum with a portion of the water to a smooth paste, add the remainder of the water and sugar, dissolve by aid of gentle heat and strain.—Eclectic.

#### Syrup of Bayberry, Thompsonian.

Bayberry bark	8
Bayberry barkav.oz. Diluted alcoholfl.oz.	32
Sugarav.oz.	8

Macerate the bark with the diluted alcohol in a warm place for two days, strain, evaporate the colature to 8 fluidounces and in this dissolve the sugar.

# Syrup of Belladonna, Compound.

Fluid extract of	belladonna root.fl.dr.	2
Fluid extract of	chestnut leaves.fl.dr.	4
Syrup of wild cl	erry bark, enough	
to make	fl.oz.	16

This is an effective mixture for whooping cough.

#### Syrup of Blackberry, Aromatic.

Blackberry root barkav.oz.	214
Cinnamongr.	120
Nutmeggr.	120
Cloves	60
Allspicegr.	60
Sugarav.oz.	11
Diluted alcohol.	
Blackberry juice of each, suffic	ient

Reduce the drug to moderately coarse powder, and percolate in the usual manner with diluted alcohol until 4 fluidounces of percolate are obtained. To this add 7 fluidounces of the juice and the sugar, dissolve by agitation, and strain.—N. F.

# Syrup of Buckthorn Bark. (Syrup of Frangula.)

Fluid extract of frangula.....fl.dr. 10 Simple syrup, enough to make..fl.oz. 16 —D.

#### Syrup of Buckthorn Berries.

(Syrupus Spinæ Cervinæ.)

Sugar .....av.oz. 14 1/2 Fermented juice of buckthorn

berries .....sufficient

Dissolve the sugar in 7 fluidounces of the juice, with the aid of a gentle heat, allow the syrup to cool, then add enough of the juice to make 16 fluidounces and strain if necessary.—N. F.

# Syrup of Butyl Chloral.

See Syrup of Croton Chloral.

#### Syrup of Calcium Hypophosphite.

Syrup of Calcium and Sodium Hypophosphite.

See Syrups of the Hypophosphites.

# Syrup of Calcium Phosphate.

I. Wiegand	l's:		
Calcium	phosphate,	precipi-	
tated		av.oz.	14
Hydrochle	oric acid	fl.dr.	412
Sugar		<b>av</b> .oz.	1414
		fl.oz.	

Dissolve the calcium phosphate in the acid previously mixed with 12 fluidounces of water, filter, add the sugar and the remainder of the water, dissolve by agitation and strain.

II. Durand's:

Calcium phosphate, precipitated.gr.	256
Phosphoric acid, glacialgr.	240
Sugarav.oz.	
Distilled waterfl.oz.	8
Spirit of lemondrops	24

Mix the calcium phosphate with the water, heat moderately, gradually add the acid until all the calcium salt is dissolved, replace the water lost by evaporation, filter, dissolve the sugar in the filtrate, strain, if necessary, and add the spirit.

# Syrup of Cascara Sagrada.

Fluid extract of cascara sagrad	la,	
Brit. Form	:fl.oz.	81
Fluid extract of licorice	fl. oz.	21/2
Carminative tincture	fl.dr.	11/2
Simple syrup, enough to make.	fl. oz.	16
—Bi	rit. For	m.

#### Syrup of Cherries. (Syrupus Cerasorum.)

Crush black, sour cherries with the stones to a pulp, set aside in a covered vessel so that it will be at a temperature of about 20 degrees C., and stir occasionally. When 2 parts by measure of clear or filtered liquid and 1 of alcohol no longer become cloudy, the juice is to be strained with Syrup of Corydalis, Compound. expression and filtered. To every 8 fluidounces of juice, add 15 av. ounces of sugar and 161 fluidounces of simple syrup, dissolve by agitation and strain.-Germ. Pharm.

#### Syrup of Chloral.

1.
Chloral hydrategr. 820
Distilled water
Simple syrup, enough to make fl.oz. 4
Dissolve the chloral in the water and add
the syrup.—Brit. Pharm.
II.
Chloral hydrategr. 120
Distilled water
Simple syrupfl.oz. 8½ Spirit of peppermintdrops 4
• • • •
Dissolve the chloral in the water, add
the syrup, and then the spiritCodex.
Syrup of Cinchona.
Tincture of cinchonafl.oz. 3
Simple syrupfl.oz. 18
—Н.
Syrup of Cochineal. (Syrupus Coccio-
nellx.)
Cochineal powderav.oz. 14
Alcohol
Simple syrupfl.oz. 1212
Mix, let stand for several days, and strain
through flannel.—H.
Syrup of Codeine.
I.
Codeine sulphategr. 19
Simple syrupfl.oz. 4
Reduce the codeine sulphate to a fine
powder and dissolve it in the syrup pre-

viously warmed. Fash Anddam of

E aca	nuiaram	contains	about	1/2	gr.
codeine	sulphate	-N. F			

. •	
Codeine (alkaloid)gr. 4	
Diluted alcoholfl.dr. 2	
Distilled waterfl.dr. 2	
Simple syrup, enough to makefl.oz. 4	

Dissolve the codeine in the diluted alcohol and add the other ingredients .- Brit. Form.

#### III.

Codeine (alkaloid.)gr. 4	
Alcoholfl.dr. 2	
Simple syrup, enough to makefl.oz. 4	

Dissolve the codeine in the alcohol and add the syrup.-Codex.

Corydalis rootgr. 600
Twin-leaf rootgr. 300
Blue flag rootgr. 150
Sheep laurel leavesgr. 150
Sugar
Simple syrup,
Alcohol,
Water of each, sufficient

Reduce the mixed drugs to powder and extract by percolation in the usual way so as to obtain 10 fluidounces of product, using as a menstruum a mixture of alcohol and water in the proportion of 1 of the former to 2 of the latter; in the percolate dissolve the sugar by agitation or percolation, and add to the solution enough simple syrup to make 16 fluidounces.-Eclectic.

#### Syrup of Croton Chloral.

Croton chloral hydrate.....gr. 256 Simple syrup, enough to make fl.oz. 16

Dissolve the croton chloral in the syrup previously made hot.-Brit. Form.

# Syrup of Creosote.

Glycerite of	creosote	fl.oz.	21/2
	p		

This contains 11 per cent of creosote.

#### Syrup of Cubeb.

Fluid extract of cubebfl.c	z 2
Magnesium carbonategr	. 240
Sugarav.oz	
Oil of bitter almonddrop	
Orange flower waterfl.oz.	
Water, enough to makefl.oz	. 16

Triturate the fluid extract with the magnesium carbonate, then add slowly, with constant trituration, 2 av. ounces of the sugar in small portions; when thoroughly mixed, add

gradually first the orange flower water, and then 7 fluidounces of water, triturating the mixture until the sugar is dissolved; filter and add sufficient water to make the filtrate measure 11 fluidounces in which the sugar is to be dissolved without heat; to the saccharine solution add the oil dissolved in a little alcohol, and then enough water to make 16 fluidounces.

#### Syrup of Digitalis.

Tincture of digitalis, U. S. P. . . fl.dr. 6 Simple syrup, enough to make . . fl.oz. 16 —Codex.

#### Syrup of Ergotin.

Extract of ergotgr. Simple syrupfl.oz.	
	-H.

#### Syrup of Ether.

Ether	fl.dr.	4
Alcohol	.fl.dr.	10
Distilled water	fl.oz.	41%
Simple syrup, enough to make	fl. oz.	16
	-Cod	ex. '

# Syrup of Eucalyptus.

Fluid extract of eucalyptusfl.dr.	10
Magnesium carbonategr.	360
Waterfl.oz.	8
Sugarav.oz.	15

Triturate the fluid extract with the magnesium carbonate, add the water gradually, let stand 1 hour, filter, and in the filtrate dissolve the sugar without heat.

Syrup of Fox Lungs. (Fuchs Lungen Saft.—Syrupus Pulmonum Vulpium.)

Pectoral elixir	fl.dr. 10
Syrup of senna	fl.dr. 22
Simple syrup	fl.dr. 21
Glycerin	fl.dr. 11
•	L

#### Syrup of Garlic, Artificial, Thompsonian.

Tincture of asafetidafl.dr.	1
Acetic acid, concentratedfl.dr.	6
Simple syrupfl.oz.	16

#### Syrup of Glycyrrhizin.

Ammoniated glycyrrhizin gr.	180
Glycerinfl.oz.	1
Waterfl.oz.	
Sugarav.oz.	12

Heat the water, add the glycyrrhizin, stir | tion.-Eclectic.

until dissolved, filter, add the sugar and glycerin, shake until dissolved, and strain.

#### Syrup of Guaiac.

Guaiac, powderav.oz.	
Potassa	60
Sugarav.oz.	
Waterfl.oz.	8

Dissolve the potassa in the water, add the guaiac, macerate for 7 days, filter, add the sugar, dissolve, and strain.

#### Syrup of Horehound, Compound.

Red rootgr. 320
Elecampane
Spikenard
Comfrey
Wild cherry barkgr. 320
Horehoundgr. 320
Blood rootgr. 160
Glycerin,
Alcohol,
Water of each, sufficient
Sugarav.oz. 10

Mix the drugs, reduce to fine powder and extract by percolation in the usual way so as to obtain 10 fluidounces of percolate, using as a menstruum a mixture of 2 parts of water and 1 of alcohol by measure; in the percolate dissolve the sugar by agitation or percolation, and to this solution add enough glycerin to make 16 fluidounces.—Eclectic.

#### Syrup of Horseradish, Compound.

(Cough Elixir.-Vegetable Elixir.)

Fresh root of horseradish,
grated av.oz. 1
Boneset
Canada snake rootgr. 120
Sugar
Boiling water,
Diluted acetic acid of each, sufficient

Add the horseradish to 4 fluidounces of diluted acetic acid, macerate for 2 days, express, and add enough of the acid to the expressed marc so that the liquid obtained by again expressing latter, added to the previous liquid, will make 4 fluidounces, express again, mix the two liquids and filter.

Infuse the boneset and snake root in the usual way so as to obtain 4 fluidounces of product.

Mix the two liquids and in this mixture dissolve the sugar by agitation or percolation.—Eclectic.

#### Syrup of Hypophosphites.

(Churchill's Syrup of Hypophosphites.)

I. (

Calcium hypophosphite	5 5 5 8 4 1 4
Water, enough to makefl.oz. 1	.6

Triturate the hypophosphites with 7 fluidounces of water until they are dissolved, add the spirit, and the acid, and filter. In the filtrate dissolve the sugar by agitation or percolation and add enough water through the filter to make 16 fluidounces. Strain, if necessary.-U. S. P.

II. Parrish's Formula:

Calcium hypophosphitegr.	288
Sodium hypophosphitegr.	
Potassium hypophosphitegr.	96
Sugarav.oz.	121/2
Distilled water, hotfl.oz.	9
Orange flower waterfl.dr.	4

Make a solution of the hypophosphites in the hot water, filter, dissolve the sugar in the filtrate, strain, and to the colature add the orange flower water.

# Syrup of Hypophosphites, Compound.

1	ľ	
	١.	

Calcium hypophosphitegr. 256
Potassium hypophosphitegr. 128
Sodium hypophosphitegr. 128
Iron hypophosphite
Manganese hypophosphitegr. 16
Potassium citrate
Citric acidgr. 15
Quinine hydrochlorategr. 8
Tincture of nux yomicam. 160
Sugar
Water

Kub the hypophosphites of iron and of manganese with the potassium citrate and citric acid to powder, add 1 fluidounce of water, and warm the mixture a few minutes until a clear greenish solution is obtained. Introduce the other hypophosphites and the quinine hydrochlorate, previously triturated together, into a bottle, next add the sugar, the iron and manganese solution first prepared, the tincture of nux vomica, and, lastly, enough water to make up the volume, as soon as the sugar is saturated by the liquid, to 16 fluidounces.

has been effected, and strain, if necessary. -N. F.

# Syrup of Hypophosphite of Calcium.

Calcium hypophosphitegr.	256
Citric acidgr.	
Sugarav.oz.	
Water, enough to makefl.oz.	16

Dissolve the calcium hypophosphite and citric acid in 8 fluidounces of water, filter the solution, add the sugar to the filtrate, and pass enough water through the filter to make the product, after the sugar has been dissolved by agitation, measure 16 fluidounces.

Each fluidram contains 2 gr. of calcium hypophosphite.--N. F.

# Syrup of Hypophosphite of Calcium, Manganese and Potassium.

Calcium hypophosphite .....gr. 256 Manganese hypophosphite ...... gr. 128 Potassium hypophosphite .....gr. 128 Distilled water, boiling .....fl.oz. 3 Simple syrup, enough to make fl.oz. 16

Triturate the hypophosphites with the water, filter, and add the syrup.

# Syrup of Hypophosphite of Calcium and Sodium.

Calcium hypophosphitegr.	256
Sodium hypophosphitegr.	256
Citric acidgr.	
Sugarav.oz.	131/2
Water, enough to makefl.oz.	16

Dissolve the two hypophosphites and citric acid in 8 fluidounces of water, filter the solution, add the sugar to the filtrate, and pass enough water through the filter to make the product, after the sugar has been dissolved by agitation, measure 16 fluidounces.

Each fluidram contains 2 gr. each of calcium and sodium hypophosphites.-N. F.

#### Syrup of Hypophosphites with Iron.

Ferrous lactate, in crustsgr.	72
Potassium citrategr.	72
Syrup of hypophosphites, enough	
to makefl.oz.	16

Triturate the two salts with a small quantity of syrup gradually added, until they are dissolved, then add the remainder of the syrup.

This preparation should be freshly made Agitate until solution when wanted.-U. S. P.

#### Syrup of Hypophosphite of Iron.

Iron hypophosphitegr.	
Potassium citrategr.	180
Orange flower waterfl.oz.	
Simple syrup, enough to make fl.oz.	16

Dissolve the iron hypophosphite with the aid of the potassium citrate in the orange flower water, and add the syrup.

Each fluidram contains 1 gr. of hypophosphite of iron (ferric).—N. F.

# Syrup of Hypophosphite of Manganese.

Manganese sulphate	gr.	120
Calcium hypophosphite	gr.	80
Sugar	.av.oz.	18
Orange flower water		
Water		

Dissolve the hypophosphite and sulphate in separate portions of water, mix the two solutions, filter, washing the precipitate in the filter with fresh distilled water; evaporate the filtrate to 8 fluidounces, dissolve the sugar in the latter, strain, and add the orange flower water. Each fluidounce contains 91, g1. of manganese hypophosphite.

#### Syrup of Hypophosphite of Sodium.

Sodium hypophosphitegr. 2	256
Citete acid	
Nugai	18 16

Humilto the solium hypophosphite and the citcle acid in N fluidounces of water, and filter the solution. In this dissolve the sugar by agilation, and puss the remainder of the water through the filter.

Each fluctuan contains 2 gr. of sodium hypophosphilo N. F.

# Kyinp of Iron and Sodium Albumiuate

White of end of a	<b></b> no. 4
DULAI .	
	tion
induction of scales,	
Water	<ul> <li>of each, sufficient</li> </ul>

Any the white of egg with the sugar and odd enough water to officer complete solution; odd on another of iten, and then just accepted the solution of soda to dissolve the accepted alternatic insuly make up to 16 devices a with water.

# Syrup of Iron (Ferric) Chloride.

#### I.

Solution of iron chloride.....fl.dr. 2 Simple syrup, enough to make..fl.oz. 16 —Codex.

II.

Tincture of chloride of ironfl.oz.	
Sodium citrateav.oz.	3
Water fl.oz.	6
Sugarav.oz.	10
Syrup, enough to makefl.oz.	16

Mix the tincture of ferric chloride with the water and dissolve in this mixture the sodium citrate and the sugar with the aid of heat; when cold add sufficient syrup to make 16 fluidounces.

#### Syrup of Iron (Ferrous) Chloride.

See Syrup of Iron Protochloride.-N. F.

# Syrup of Iron Citrate.

#### Syrup of Iron Hypophosphite.

See Syrup of Hypophosphites.

#### Syrup of Iron and Quinine Iodides.

I. Bouchardat's formula:

Iodinegr.	42
lron, in powdergr.	17
Simple syrupfl.oz.	15%
Quinine sulphategr.	8
Diluted sulphuric acidsufficie	ent
Distilled waterfl.dr.	41/2

Digest the iodine, iron, and 3 fluidrams of the water until the red-brown color of the iodine has disappeared; falter through a small filter into the syrup. Then dissolve the sulphate of quinine in  $1\frac{1}{2}$  fluidrams of water with the aid of diluted sulphuric acid and mix this solution with the previously prepared syrup.

# II.

Quinine sulphate.....gr. 20 Hypophosphorous acid, diluted, sufficient Potassium iodide.....gr. 8 Simple syrup, enough to make..fl.oz. 8 Syrup of iron iodide (U. S.)...fl.oz. 8

To the quinine sulphate add about 10 drops of commercial solution of hypophosphorous acid and then a small amount of syrup; when the quinine salt is dissolved,

144

add the remainder of the syrup and afterwards the potassium iodide dissolved in a few drops of water; mix well. Now add the syrup of iron iodide and mix. Should any cloudiness appear, clear it up by a few drops of the hypophosphorous acid.

A fluidram of this syrup contains about 4 gr. of dry iodide of iron and about 6 gr. of hydriodide of quinine.

# Syrup of Iron and Ammonium Phosphate.

Iron sulphategr.	635
Sodium phosphategr.	820
Glacial phosphoric acid, C. Pgr.	900
Ammonia watersuffic	ient
Sugarav.oz.	131/2
Distilled watersuffic	ient

Dissolve the sodium phosphate and the iron sulphate separately in distilled water, mix the solution, and wash the resulting precipitated iron phosphate. Then to one-half of the phosphoric acid, dissolved in  $2\frac{1}{4}$ fluidounces of water, add ammonia water until exactly neutral. To the remainder of the phosphoric acid, dissolved in a like amount of water, add the moist iron phosphate and dissolve by the aid of a gentle heat; then add the solution of ammonium phosphate and the sugar, dissolve the whole, strain, and evaporate to 16 fluidounces.

Each fluidram contains  $4\frac{1}{2}$  gr. iron phosphate,  $4\frac{3}{4}$  gr. ammonium phosphate, and  $3\frac{1}{2}$  gr. of phosphoric acid.

#### Syrup of Iron and Ammonium Tartrate.

Tartrate of iron and potassium. gr. 225 Distilled water, hot.....fl.dr. 4 Simple syrup, enough to make fl.oz. 16

Dissolve the iron salt in the water and add the svrup.-Codex.

#### Syrup of Iron Iodohydrargyrate.

Syrup of iodide of iron.....fl.oz. 15 Red iodide of mercury......gr. 3

#### Syrup of Iron and Potassium Tartrate.

Tartrate of iron and potassium..gr. 225Distilled water, hot......fl.dr.4Simple syrup, enough to make fl.oz.16

Dissolve the iron salt in the water and add the syrup.—Codex. 10

# Syrup of Iron Pyrophosphate.

Iron pyrophosphate, soluble....gr. 90 Distilled water.....fi.dr. 4 Simple syrup, enough to make. fl.oz. 16 ---Codex.

# Syrup of Liquidambar.

Sweet-gum bark, coarsely pow-	
deredav.oz.	2ł
Sugarav.oz.	14
Watersuffici	

Moisten the bark thoroughly with water, macerate in a close vessel for 24 hours, pack in a percolator, and pour on water until 8 fluidounces of percolate are obtained. In this dissolve the sugar by agitation or percolation.—Eclectic.

This has been recommended for the bowel complaints of children, also for chronic cough and mucous affections.

#### Syrup of Lobelia.

Vinegar of lobelia ......fl.oz. 8 Sugar .....av.oz. 16

Dissolve by aid of heat not exceeding 82 degs. C.; continue heat for 3 hours, removing any scum that may form, and strain while hot.—Eclectic.

# Syrup of Lobelia, Thompsonian.

Lobelia seed	. av. oz.	1
Water	. fl.oz.	16
Vinegar		
Sugar	.av.oz.	18
Tincture of lobelia		

Boil the lobelia with the water and vinegar for one-half hour, occasionally replacing the water lost by evaporation, then strain, add the sugar, dissolve, and add the tincture.

Syrup of Maidenhair. (Syrupus Capilli Veneris.)

Maidenhairgr.	820
Distilled water, hot fl.oz.	10
Sugarav.oz.	11

Macerate the fern with the water for 6 hours, strain, add the sugar and dissolve. — Codex.

#### Syrup of Manganese Iodide.

Manganese sulphate......gr. 960 Potassium iodide......gr. 1140 Sugar.....av.oz 13 Distilled water, Simple syrup.....of each, sufficient

Dissolve the two salts each in 3 fluidounces of water to which 2 fluidrams of syrup have

been added, mix them, place in a cool location for at least one-half hour, filter, allowing the filtrate to pass into a bottle containing the sugar; add sufficient water through the filter to make the whole measure 16 fluidounces, dissolve the sugar by agitation, and filter if necessary.

Each fluidram contains about 71/2 gr. of manganese iodide.

# Syrup of Manganese Hypophosphite.

See Syrup of Hypophosphite of Manganese.

#### Syrup of Manganese Phosphate.

Manganese sulphategr.	920
Sodium phosphate.av.oz. 31/2 or suffic	ient
Hydrochloric acidfl.dr.	5
Sugarav.oz.	181
Water, enough to makefl.oz.	16

Dissolve the salts separately in 10 fluidounces of water, and add solution of sodium phosphate to the solution of manganese sulphate as long as it produces a precipitate, which wash with cold water, and then dissolve by means of the hydrochloric acid; dilute this solution till it measure 81/4 fluidounces, and in this dissolve the sugar.

Each fluidram contains 5 gr. of manganese phosphate.

# Syrup of Mercury Iodide. (Syrup of Gibert.)

Red iodide of mercurygr.	- 3
Potassium iodidegr.	
Water fl.dr.	
Simple syrup, enough to make fl.oz.	

Dissolve the mercuric and potassium iodides in the water and add the syrup.

#### Syrup of Mitchella, Compound.

(Compound Syrup of Partridge Berry. -Mother's Cordial.-Compound Syrup of Squaw Vine.)

Mitchella	960
Helonias rootgr. 2	
Cramp barkgr. 2	
Blue cohoshgr. 2	
Oil of sassafrasdrops	4
Sugarav.oz.	
Water,	
Alcoholof each, sufficient	ent

oil, and percolate in the usual manner so as filtrate dissolve 13 av. ounces of sugar.to obtain 11 fluidounces of product, using as Germ. Form.

a menstruum a mixture of 1 part of alcohol by measure and 2 of water; in this percolate dissolve the sugar.-Eclectic.

#### Syrup of Nickel Bromide.

Nickel bromidegr.	320
Glycerinfl.oz.	
Water	
Sugarav.oz.	16

Dissolve the nickel bromide in the water, filter, add the glycerin, and in this mixture dissolve the sugar by agitation or percolation.

Syrup Opiated. (Syrupus Opiatus.) Extract of opium.....gr. 191/2 Water ..... fl.dr. 2 Simple syrup, enough to make. . fl.oz. 16

Dissolve the extract in the water and add the syrup.-Codex.

#### Syrup of Osmunda, Compound.

Osmunda gr. 600	
Burdock	
Yellow dockgr. 300	
Turkey corn	
Comfreygr. 300	
Stillingiagr. 300	
Prickly ash berriesgr. 300	
Calamusgr. 75	
Sugar	ч
Diluted alcoholsufficient	

Grind drugs to coarse powder, extract them by percolation with diluted alcohol to make 111 fluidounces of product, in which the sugar is to be dissolved.-Eclectic.

#### Syrup of Peppermint.

Peppermint, herb, cutgr.	324
Alcoholfl.dr.	
Water fl.oz.	414
Sugarav.oz.	6 🖌
Simple syrupfl.oz.	

Moisten the drug with the alcohol, add the water, let macerate for 24 hours, express, add the sugar and syrup and dissolve by agitation.-Germ. Pharm.

#### Syrup of Peru Balsam.

Peru balsam	 	.av.oz. 1
Sugar,		
Water	 of each.	sufficient

Upon the balsam pour 10 fluidounces of hot water, set aside for 24 hours, occasion-Mix the drugs, reduce to powder, add the ally agitating, filter, and in 8 fluidounces of

#### Syrup of Poke Root, Compound.

Poke root	
American ivy barkgr. 64	
Black cohoshgr. 32	0
Sheep laurel	0
Oil of sassafrasdrops	3
Oil of wintergreendrops	
Sugarav.oz. 1	0
Alcohol,	
Water,	
Simple syrup of each, sufficien	t

Mix the drugs, reduce to fine powder, add the oils, and extract by percolation so as to obtain 10 fluidounces of percolate, using as a menstruum a mixture of 1 part of alcohol by measure and 2 of water. In this dissolve the sugar, and then add enough simple syrup to make 16 fluidounces.-Eclectic.

#### Syrup of Quinine Sulphate. . .

Quinine sulphategr. 8	<del>)</del> 6
Diluted sulphuric acidm. 8	30
Distilled waterfl.dr.	6
Simple syrup, enough to make. fl.oz. 1	6

Dissolve the quinine in the acid and water and add the syrup.- Codex.

# Syrup, of Restorative, Thompsonian. (Restorative Cordial, "Number five.")

American poplargr.	
European poplargr. Bayberry root barkgr.	144 288
Water fl.oz.	101/2
Sugarav.oz.	334

Boil the drugs for a few minutes with the water, strain, add the sugar, then 150 gr. of peachmeat reduced to fine condition and finally 4 fluidounces of brandy (or tincture of myrrh).

#### Syrup of Rhubarb and Potassium, Compound. (Neutralizing Cordial.)

I.

Rhubarbg	r. 240
Hydrastis	r. 120
Cinnamong	r. 120
Potassium carbonateg	r. 240
Oil of peppermintdroj	os 5
Sugarav.o	z. 14
Alcoholfl.o	z. 8
Waterfl.o	z. 16

Dissolve the potassium carbonate in a portion of the water and mix in a suitable sized container with the rhubarb, hydrastis and cinnamon, the last three being in fine powder. Now add the alcohol and the remainder the soluble starch iodide thus formed, the

of the water and allow to stand for 48 hours, agitating the whole briskly at frequent intervals. Decant the clear portion, and filter the remainder through absorbent cotton, adding sufficient water through the filter to make the whole measure 24 fluidounces. In this dissolve the sugar by agitation, and add the oil of peppermint.-Eclectic.

# II.

~ ~

Fluid extract of rhubarbfl.dr.	
Fluid extract of golden sealfl.dr.	21
Potassium carbonategr.	128
Simple syrupfl.oz.	4
Tincture of cinnamonfl.oz.	1
Spirit of peppermintfl.dr.	1
Diluted alcohol, enough to	
make	16

Dissolve the potassium carbonate in the syrup, and add the solution to the fluid extracts, tincture and spirit, previously mixed with 10 fluidounces of diluted alcohol. Mix well, add the remainder of the diluted alcohol, and filter, if necessary.

#### Syrup of Saccharin.

Saccharingr.	150
Sodium carbonate, puregr.	165
(Or sodium bicarbonate, puregr.	180)
Distilled waterfl.oz.	32

Dissolve by the aid of a gentle heat.

This may be employed as a substitute for simple syrup.

# Syrup of Senna with Manna. (Syrupus Mannatus. -- Compound Syrup of Manna.)

Syrup of senna, U. S. P .....fl.oz. 4 Syrup of manna, N. F.....fl.oz. 4 -Germ. Pharm.

#### Syrup of Starch Iodide.

Iodine	 				gr. 30
					gr. 250
Ether,					U U
Water.					
		• • •	of	each,	sufficient

Dissolve the iodine in ether, pour the solution on the starch and triturate until all the ether has evaporated. Then transfer the mixture to a porcelain capsule and heat on a water bath for one-half hour, stirring very frequently. At first considerable iodine vapor is evolved, but this soon ceases. From

syrup may be prepared by dissolving 84 gr. in 71/2 fluidounces hot water, and in the solution dissolving 14 av.ounces of sugar.

This syrup represents 1-10 per cent of iodine.

# Syrup, Strengthening, Thompsonian.

Comfreyav.oz.	2
Elecampaneav.oz.	
Hoarhoundav.oz.	
Waterfl.oz.	48
Beth root, powdergr.	120
Brandyfl.oz.	8
Sugarav.oz.	8

Boil the first three drugs with the water until 24 fluidounces of liquid can be obtained, strain, add the remaining ingredients, and shake occasionally until the sugar is dissolved.

#### Syrup of Strychnine Sulphate.

Strychnine sulphategr.	2%
Distilled waterfl.dr.	ý
Simple syrup, enough to makefl.oz.	8´¯

Dissolve the strychnine in the water and add the syrup.—Codex.

# Syrup of Superphosphate of Iron.

Add freshly precipitated iron phosphate (see manner of preparation under Syrup of Iron and Ammonium Phosphate) to saturation to a boiling solution of glacial phosphoric acid. On concentrating and cooling, the product forms a soft mass, which is freely soluble in water in all proportions and is free from inky taste.

The syrup may be prepared by dissolving 5 gr. of this substance in a fluidram of simple syrup.

#### Syrup of Sweet Gum.

See Syrup of Liquidambar.

#### Syrup of Tar, Compound.

Fluid extract of licorice	.fl.oz.	2
Paregoric	. fl.oz.	2
Syrup of ipecae	. fl. oz.	2
Glycerite of tar		
Syrup of tolu, enough to make.		

#### Syrup of Tartaric Acid.

ż

Tartaric acidgr.	100
Distilled waterfl.dr.	2
Simple syrupfl.oz.	1534

Dissolve the acid in the water and add to the syrup.

If this solution be flavored with spirit of

lemon or spirit of orange, it may be called syrup of lemon or syrup of orange.—Codex.

#### Syrup of Tolu.

The following is employed very largely and furnishes an excellent product:

Tincture of tolu	. fl. oz.	2
Magnesium carbonate	gr.	120
Sugar	.av.oz.	2814
Water		

Triturate the tincture with the magnesium compound and 2 ounces of sugar to a smooth paste, gradually add the remainder of the sugar, stirring constantly meanwhile, filter, and in the filtrate dissolve the remainder of the sugar by agitation or percolation.—U. S. P. 1870.

# Syrup of Trifolium, Compound.

(Syrup of Red Clover Blossom.—Syrup of Red Clover, Compound.)

Fluid extract of trifolium blos-

somsfl.oz.	1
Fluid extract of berberis aqui-	
foliumfl.dr.	4
Fluid extract of poke rootfl.dr.	4
Fluid extract of burdockfl.dr.	4
Fluid extract of cascara amarga fl.dr.	4
Fluid extract of stillingiafl.dr.	4
Fluid ext. of prickly ash bark.fl.dr.	1
Potassium iodidegr.	128
Simple syrup, enough to make fl.oz.	16

# Syrup of Turpentine.

Gum turpentinegr.	320
Magnesium carbonategr.	160
Tincture of tolufl.dr.	212
Glycerinfl.dr.	12
Gum arabicav.oz.	11/2
Sugarav.oz.	13
Water, enough to makefl.oz.	16

Triturate the first three together, add 6 fluidounces of water, filter, add the other ingredients, shake until dissolved, and strain.

## Syrup of Uva Ursi, Compound.

Fluid extract of uva ursi	.fl.oz. 1
Fluid extract of buchu	.fl.oz. 1
Fluid extract of cubebs	.fl.oz. 1
Sweet spirit of nitre	
Simple syrup	

# Syrup of Valerian, Compound.

Fluid extract of valerian fl.oz.	4
Fluid extract of scullcapfl.oz.	2
Tincture of hyoscyamusfl.oz.	
Spirit of wintergreenfl.dr.	
Simple syrup, enough to makefl.oz.	

#### Syrup of White Pine, Compound.

White pine barkgr. 576Wild cherry barkgr. 576Spikenard rootgr. 80Balm of gilead budsgr. 80Sanguinaria rootgr. 64Sassafras barkgr. 56Morphine sulphategr. 4
Chloroformgr. 50
Sugarav.oz. 13 Alcohol, Water.
Simple syrupof each, sufficient

Reduce the vegetable drugs to moderately coarse powder, moisten the powder with a menstruum composed of 1 volume of alcohol and 3 volumes of water, and macerate for 12 hours. Then percolate with the same menstruum until 8 fluidounces of tincture have been obtained, in which dissolve the sugar and the morphine sulphate; lastly, add the chloroform, and sufficient syrup to make 16 fluidounces, and strain.-N. F.

# Syrup of Wild Cherry, Compound.

Wild cherryav.oz.	2
Spikenardav.oz. Ipecacgr.	1/2
lpecacgr.	160
Bloodrootgr.	55
Tincture of opiumfl.dr.	
Sugarav.oz.	
Alcohol.	
Waterof each, suffic	ient

Mix the drugs and reduce to tolerably fine powder and extract them by percolation in the usual way, using a menstruum consisting of alcohol and water in the proportions of 1 of the former and 2 of the latter by measure, obtaining 10 fluidounces of percolate; in this dissolve the sugar by agitation or percolation.

## Syrup of Wild Cherry and Hoarhound.

#### Wild cherry bark, coarse pow-

der	av.oz. 4
Hoarhound	av.oz. 1
Glycerin	fl.oz. 1
Alcohol	fl.oz. 1
Sugar	av.oz. 12
Water	

Mix the glycerin and alcohol with 8 fluidounces of water; moisten the wild cherry and hoarhound with 2 fluidounces of this mixture, pack in a cylindrical percolator tightly covered; after 24 hours' maceration proceed filter; add the sugar and dissolve with the with percolation, using the remainder of the aid of gentle heat.

menstruum, and afterward sufficient water to make 10 fluidounces of percolate; in this dissolve the sugar by agitation, without heat, and strain.

#### Syrup of Wintergreen.

Wintergreen leaves	.av.oz.	2
Boiling water	.sufficier	nt
Sugar	.av.oz. 1	2
Oil of wintergreen		

Infuse the leaves in enough water to complete 8 fluidounces of infusion; in it dissolve the sugar with the aid of heat, and when the syrup is nearly cold add the oil previously dissolved in a small amount of alcohol.

# Syrup of Wormwood. (Syrup of Absinthium.)

Wormwoodav.oz.	1
Boiling waterfl.oz.	8
Sugarav.oz.	14

Infuse the drug with the water for 12 hours, strain with expression, and filter, and in the filtrate dissolve the sugar by agitation or percolation.

#### Syrup of Yellow Dock, Compound.

(Compound Syrup of Rumex.-Scrofulous Syrup.)

Yellow dockgr. 48	30
False bittersweetgr. 24	
American ivy barkgr. 12	20
Figwortgr. 12	20
Alcohol,	
Waterof each, sufficient	nt
Sugarav.oz. 1	0

Mix the drug, reduce to fine powder and extract by percolation so as to obtain 10 fluidounces of product, using a menstruum composed of 1 part of alcohol by measure to 2 of water; in this percolate dissolve the sugar by agitation or percolation.-Eclectic.

#### Syrup of Yerba Santa.

Fluid extract of eriodictyonfl.oz.	1
Calcined magnesiaav.oz.	1/2
Calcined magnesiaav.oz. Waterfl.oz.	712
Sugarav.oz.	14

Mix the fluid extract with the calcined magnesia and add the water gradually, with constant stirring; let it stand 24 hours and

# Syrup of Yerba Santa, Aromatic.

(Aromatic Syrup of Eriodictyon.)	l l
Fluid extract of yerba santa fl.d	r. 4
Solution of potassafl.d	
Compound tincture of carda-	
momfl.o	z. 1
Oil of sassafrasdroj	
Oil of lemondroj	os 4
Oil of clovesdroj	os 8
Alcoholfl.d	r. 4
Sugarav.o	z. 14
Water, enough to makefl.o	z. 16

Mix the fluid extract and solution of potassa, then add 12 fluidrams of water previously mixed with the compound tincture of cardamom, and afterwards add the oils dissolved in the alcohol. Shake the mixture thoroughly, then filter it, and pour enough water through the filter to obtain 6 fluidounces of filtrate. Pour this upon the sugar contained in a bottle, and dissolve it by placing the bottle in hot water, frequently agitating. Lastly, cool the product and add enough water, passed through the filter previously used, to make 16 fluidounces.—N. F. Other syrups are mentioned in Parts II, IV and V.

# Tablets, Antiseptic, Dr. C. M. Wilson's.

Each tablet should contain:

Corrosive sublimate......gr. 7.7 Ammonium chloride ......gr. 7.8

If added to 16 fluidounces of water, the product will represent a solution of 1 in 1000.

#### Tallows.

Refer to Suets.

#### Teas.

Refer to Species.

#### Thompsonian Remedies.

"Number one" is lobelia.

" Number two " is capsicum.

"Number three" is bayberry, sumach and capsicum.

"Number four" is the "bitters." See Bitters.

"Number five" is restorative syrup or condital. See Syrups.

Number six," hot drops or rheumatic liquid drops hes l'inclure of Capsicum and Myrrh. latter.

"Third Preparation:" Lobelia seed......gr. 480 Cypripedium, powder, an even teaspoonful. Number six.....fl.oz. 12 Macerate and retain liquid on dregs. Brown lobelia is lobelia seed. Green lobelia is lobelia herb. Camphor julep. See Camphor. Conserve of hollyhock. Refer to Confections. Ointment, astringent. See Ointments. Pills, iron, compound. See Pills. Poultice, charcoal: Charcoal .....av.oz. 3 Bayberry .....av.oz. 1 Slippery elm.....av.oz. 3 Water, hot ..... sufficient Powder, composition. See N. F. Powder, cough. See Powders. Powder, nerve. See Powders. Salve. See Ointments. Syrup of bayberry. See Syrups. Syrup of garlic, artificial. See Syrups. Syrup of lobelia. See Syrups. Syrup or cordial, restoratives. See Syrups. Syrup, strengthening. See Syrups.

# Tincture of Aconite Leaf.

Aconite leaves, powder ......gr. 960 Diluted alcohol .....sufficient

Extract the drug by percolation so as to obtain 16 fluidounces of product.—U. S. P. 1870.

This preparation must not be confounded with tincture of aconite (root) U. S. P. or Fleming's tincture of aconite N. F.

#### Tincture of Asarum.

Canada snake-root, powder...av.oz. 4 Alcohol, sufficient to make ....fl.oz. 16

#### Tincture of Arbor Vite. (Tincture Thuja.)

Arbor vitæ, fresh tops.....av.oz.  $3\frac{1}{2}$ Alcohol, enough to make.....fl.oz. 16

Macerate the arbor vitæ with 16 fluidounces of alcohol for 7 days, then decant the liquid, express the residue, treat the latter with fresh portions of alcohol, expressing forcibly each time, until 16 fluidounces of liquid are obtained, and finally filter the latter.

#### Tincture of Asafetida, Compound.

Asafetidagr.	200
Lupulin	
Stramonium seedgr	
Valerian rootgr	
Alcohol	

Mix the drugs, reduce to coarse powder, add the alcohol, macerate for 14 days, strain, express and filter.—Eclectic.

# Tincture of Avena Sativa, Homeopathic. (Tincture of Oats.)

Oats, unhusked .....av.oz. 8 Potassium carbonate, Water,

Alcohol .....of each, sufficient

Grind the oats to moderately fine powder, moisten with a 5 per cent aqueous solution of potassium carbonate—first warmed to 45 degs. C.—macerate for 3 hours, pack in a percolator and add alcohol until 16 fluidounces of product are obtained.

# Tincture of Bees, (Honey.) (Tinctura Apis Mellificæ.)

Collect quantity of living honey-bees in a bottle, agitate the latter so as to irritate them and them cover them with alcohol; after a few days, the liquid is ready for use.— Eclectic.

# Tincture of Black Cohosh, Compound.

(Compound Tincture of Cimicifuga.)

 Tincture of black cohosh .....fl.oz. 8¼

 Tincture of blood root, U. S. P. fl.oz. 6

 Tincture of poke root ......fl.oz. 1¼

 —Eclectic.

# Tincture of Bloodroot, Compound.

(Emetic Tincture.)

Blood rootav.oz. 1	
Lobelia herbav.oz. 1	
Skunk cabbageav.oz. 1	
Diluted alcoholsufficient	

Extract the mixed drugs in fine powder by percolation with diluted alcohol so as to obtain 16 fluidounces of product.—Eclectic.

#### Tincture of Blue Cohosh.

Blue cohosh, fine powder.....av.oz. 31/ Alcohol ......sufficient

Extract the drug by percolation with alcohol so as to obtain 16 fluidounces of product. --Eclectic.

# Tincture of Blue Cohosh, Compound.

Blue cohosh, fine powdergr. Ergot, fine powdergr.	
Water pepper, fine powdergr. Oil of savinfl.dr.	320
Alcoholsuffic	

Extract the mixed drugs by percolation with alcohol, so that the percolate with the oil added will make 16 fluidounces.— Eclectic.

# Tincture of Blue Flag.

Blue flag, fine powder.....av.oz. 31/ Alcohol.....sufficient

Extract the drug by percolation with alcohol, so as to obtain 16 fluidounces of product.—Eclectic.

#### Tincture of Buchu.

Buchu, coarse powder.....av.oz. 2 Diluted alcohol .....sufficient

Extract the drug by percolation so as to obtain 16 fluidounces of product.—Brit. Pharm.

#### Tincture of Burdock Seed.

Burdock seed, ground.....av.oz. 41/2 Water,

Alcohol .....of each, sufficient

Mix the liquids in the proportion of 1 by measure of the water to 3 of the alcohol, and percolate the drug in the usual way, until 16 fluidounces of percolate are obtained.

Tincture of Cacao. (Tincture of Theobroma.)

Cacao beans, freshly roasted ...av.oz. 16 Cinnamon ......av.oz. 2 Tincture of vanilla, U. S. P....fl.oz. 2½ Diluted alcohol, enough to make fl.oz. 16

Reduce the cacao beans and the cinnamon to moderately fine powder, add 16 fluidounces of diluted alcohol, macerate for 4 or 5 days, agitating occasionally, transfer to a glass percolator and percolate, adding sufficient more of the diluted alcohol to make the percolate, including the tincture of vanilla, measure 16 fluidounces.

#### Tincture of Cactus Grandiflorus.

Fresh	flowers	and	stems	of	
cact	us grand	ifloru	s	av.oz.	41/2
				fl.oz.	

Macerate for 14 days, occasionally agitating, express and filter.—Eclectic.

#### Tincture of Cajuput, Compound.

Oil of cajuput	, fl. oz.	4
Oil of peppermint	.fl.oz.	4
Oil of cloves		
Alcohol		

# Tincture of Calamus.

Calamus, coarse powderav.oz.	3
Waterfl.oz.	41/2
Alcoholfl.oz.	13

Mix, macerate for 7 days, agitating occasionally, strain with expression and filter.— Germ. Pharm.

# Tincture of Carduus Mariæ, Rademacher's. (Tincture of Mary Thistle.)

Carduus Mariæ fruit, wholeav.oz.	10
Alcoholfl.oz.	12
Distilled waterfl.oz.	10

Macerate for 8 days, then filter. The fruit is used whole, owing to its highly mucilaginous character.

#### Tincture, Carminative.

Cardamom seed, bruisedgr.	480
Tincture of gingerfl.oz.	21/2
Oil of cinnamonm.	
Oil of cloves,m.	80
Oil of carawaym.	80
Alcohol, enough to makefl.oz.	

Macerate the cardamom with 12 fluidounces of alcohol for 7 days, decant the liquid, express the residue, filter the entire liquid, add the oils to the filtrate, and finally add the remainder of the alcohol.—Brit. Form.

#### Tincture of Cascara Sagrada.

Cascara sagrada, coarse powder av.oz.	
Water	534
Alcoholfl.oz.	11 1/2

Mix, macerate for 10 days, agitating occasionally, express, and filter.—Codex.

#### Tincture of Castor.

Castor (	(Russian	preferred).	av.oz. 1	14
Alcohol			sufficien	ť

Reduce the castor to as fine a condition as possible, macerate with the alcohol for 14 days, occasionally agitating, express, and filter, adding enough alcohol through the filter to make the liquid measure 16 fluidounces.—Eclectic.

#### Tincture of Castor, Ammoniated.

Castorgr. 4	180
Asafetidagr. 2	
Spirit of ammoniafl.oz.	16

Reduce the drugs to coarse powder, add the spirit, macerate for 7 days, agitating occasionally, and express.—Eclectic.

# Tincture of Celandine, Rademacher's.

(Tincture of Chelidonium.)

Fresh herb of chelidonium	
majus	
Alcoholfl.oz.	12

Contuse the herb tea to a pulp, add the alcohol, macerate for 8 days, express, and filter.

#### Tincture of Chinoidin.

Chinoidin	av.oz.	11/2
Alcohol	fl.oz.	11 🖌
Hydrochloric acid		
Water	fl.oz.	34
-Germ. and		

#### Tincture of Chloroform, Compound.

Chloroform	fl.oz. 1
Alcohol	fl.oz. 4
Compound tincture of	carda-
mom	
,	-Brit. Pharm.

#### Tincture of Cinnamon, Compound.

Cinnamongr. 2	240
Cardamomgr.	90
Prickly-ash berriesgr.	90
Gingergr.	90
Diluted alcoholsuffici	ent

Extract the mixed drugs in fine powder by percolation so as to obtain 16 fluidounces of product.—Eclectic.

#### Tincture of Cocculus Indicus, Homeopathic.

Cocculus Indicus, powderav.oz.	3
Alcoholfl.oz.	16
Waterfl.dr.	10

Place all in a well-corked bottle, and macerate for 8 days, shaking the bottle well twice a day; then press out and filter. This makes the mother tincture.

#### Tincture of Cochineal.

Cochineal, powder.....av.oz. 2 Diluted alcohol, enough to make fl.oz. 16

Extract the drug by percolation or maceration.—Brit. Pharm.

The product may be used for coloring elixirs and other preparations.

	L IKLIAKATIONS. 100
Tincture of Cochineal, Bademacher's.         (Tinctura Coccionellæ.)         Cochineal, coarse powderav.oz. 1         Alcoholfl.oz. 11         Macerate for 3 days, 'agitating occasion- ally, and filter.         Tincture of Colchicum, Compound.         Tincture of colchicum, Seedfl.oz. 8         Tincture of Colocynth.         Colocynth, with seeds, cut         coarse         coarse         alcohol	<ul> <li>smooth paste is formed, transfer this to a copper vessel, add the water, heat to boiling, allow to cool, add the alcohol, set aside for 4 weeks, agitating frequently, and filter. A more expeditious process is the following:</li> <li>Copper acetate, crystallizedgr. 480 Distilled waterfl.oz. 9 Alcoholfl.oz. 7 Dissolve the acetate in the water previously warmed and filter.</li> <li>Tincture of Corydalis. (Tincture of Turkey Corn.) Turkey corn, fine powdersufficient Extract the drug by percolation with diluted alcohol so as to obtain 16 fluidounces of product.—Eclectic.</li> <li>Tincture of Culver's Boot. (Tincture of Leptandra.) Culver's rootav.oz. 3¼</li> </ul>
to coarse powder, add 16½ fluidounces of alcohol. Macerate for 14 days, agitating, express, filter, and add enough alcohol to the filtrate to make 16 fluidounces.	Diluted alcoholsufficient Extract the drug in moderately fine pow- der by percolation so as to obtain 16 fluid- ounces of product.—Eclectic.
Tincture of Conium.	Tincture of Digitalis, Ethereal.
Conium seed, powderav.oz. 2¼ Diluted hydrochloric acidfl.dr. ½ Diluted alcoholsufficient	Digitalis, cut fineav.oz. 14 Spirit of ether
Extract the drug by percolation so as to obtain 16 fluidounces of product, adding the acid to that portion of the diluted alcohol which is used for moistening the drug.—U. S. P. 1880.	Tincture of Ergot. Ergot, powderav.oz. 4 Diluted alcoholsufficient Percolate the drug so as to obtain 16 fluid-
Tincture of Convallaria. (Tincture of Lily of the Valley.)	ounces of tincture.—Brit. Pharm. Tincture of Eucalyptus.
Lily of the valley flowers and stalks, dried, coarse powderav.oz. 2 Diluted alcoholsufficient Extract the drug by percolation, so as to make 16 fluidounces of product.—Brit. Form.	Eucalyptus powder
Tincture of Copper Acetate, Rade- macher's.         Copper sulphate, pure       gr. 675         Lead acetate, pure       gr. 840         Distilled water       fl.oz.       8½         Alcohol       fl.oz.       7½         Triturate the two salts together until a	

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#### Tincture of Golden Seal, Compound.

Tincture			
S. P			 fl.oz. 9½
Tincture	oſ	lobelia	 fl.oz. 61/2
			-Eclectic.

#### Tincture of Guaiac, Aromatic.

Refer to Greenhow's Cholera Mixture.

#### Tincture of Hips, Rademacher's.

(Tinctura Cynosbati.)

Fresh rose hips, cut fine.....av.oz. 2 

Macerate the hips with 12 fluidounces of alcohol, agitating frequently, express, filter and add enough alcohol to the filtrate to make 12 fluidounces.

#### Tincture of Iodine, Compound.

Iodinegr.	240
Potassium iodidegr.	480
Alcoholfl.oz.	
Mix and dissolveU. S. P. 1870.	

This must not be confused with the compound solution of iodine of the present pharmacopœia.

#### Tincture of Iron, Compound.

Tincture of ferrated extract of	
apples, N. F	3
Vinous tincture of rhubarbfl.oz. 8	2
Tincture of nux vomicafl.oz. 1	L

See also next formula.

# Tincture of Iron, Athenstædt, Com-

pound. (Aromatic Tincture of Iron. -Athenstædt's Tincture.)

Soluble oxide of irongr	330
Distilled waterfl.oz.	
Simple syrup those	6
Alcohol	61,
Citrie acidgr.	30
Tincture of orange peelm.	20
Aromatic tincturedrops	19
Tincture of cinnamondrops	19
Tincture of vanilladrops	19
Acetic ether drop	

Dissolve the iron salt in the water, then add the other ingredients and filter.

The iron oxide used for the above should represent 10 per cent of metallic iron. If it be weaker, a proportionately larger amount the amount of syrup subsequently added.

#### Tincture of Iron Acetate, Bademacher's.

Iron sulphate, pure	gr.	656
Lead acetate, pure		
Diluted acetic acid	. fl. oz.	6
Distilled water		
Alcohol		

Triturate the two salts together to a pastymass, introduce this into an iron vessel, add the water and acid, heat to boiling, allow to cool, transfer to a large flask, add the alcohol, set the flask, loosely stoppered, aside forseveral months, agitating occasionally until the liquid has acquired a light red tint, and finally filter.

A more expeditious process for making this preparation would be by the use of solution of iron tersulphate, as follows:

Solution of iron tersulphate	.fl.oz.	215
Distilled water	.fl.oz.	21⊊
Lead acetate, pure	av.oz.	15
Diluted acetic acid	.fl.oz.	5
Alcohol		

Dissolve the lead acetate in the acid, add the iron solution previously mixed with the water, then gradually add the alcohol, set aside for one or two weeks and decant the clear liquid which is the finished product.

#### Tincture of Jaborandi.

Jaborandi, powder.....av.oz. 4 Diluted alcohol ..... sufficient

Extract by percolation so as to obtain 16 fluidounces of product.-Brit. Pharm.

Tincture of Kalmia. (Tincture of Sheep Laurel or Mountain Mint.)

Sheep laurel leaves, ground....av.oz. 31/ Diluted alcohol.....sufficient

Extract the drug by percolation so as to obtain 16 fluidounces of product.-Eclectic.

#### Tincture of Lobelia, Compound. (King's Expectorant Tincture.)

Lobelia (herb)gr. 12	0
Bloodrootgr. 12	0
Skunk cabbagegr. 12	0
Canada snake rootgr. 12	0
Pleurisy rootgr. 12	
Water,	
Alcoholof each, sufficien	t

Mix the drugs and reduce to fine powder; should be employed, and slightly decreasing mix the alcohol and water in the proportion of 3 of the former to 1 of the latter, and

extract the mixed drugs by percolation with this menstruum so as to obtain 16 fluidounces of product.-Eclectic.

#### Tincture of Lemon Peel.

Lemon peel, fresh, sliced thin. .av.oz. 2 

Mix the peel with 16 fluidounces of diluted alcohol, macerate for 7 days, agitating occa-Sionally: strain, express and filter, adding enough menstruum to make a total filtrate of 16 fluidounces.-Brit. Pharm.

#### Tincture of Lobelia and Capsicum, **Compound.** (Antispasmodic Tincture.)

Lobeliaav.oz. 1	
Capsicumav.oz. 1	
Skunk cabbageav.oz. 1	
Diluted alcoholsufficient	

Mix the drugs in moderately fine powder and extract by percolation with diluted alcohol so as to obtain 16 fluidounces of product. -Eclectic.

#### Tincture of Lupulin.

Lupulin			.4	ŧ.							.av.oz.	21
Alcohol											fl. oz.	16

Macerate for 7 days, shaking occasionally, and filter, adding enough alcohol through the filter to make 16 fluidounces.-Eclectic.

#### Tinctures, Mother.

The "mother tinctures" of the homeopathists are the basic preparations of crude drugs from which the attenuations or "potencies" are formed. They should be made from freshly gathered drug, which is to be contused and then macerated for 14 days with a mixture of alcohol and water in such proportion that the percentage of spirit in the product shall be the same as in the diluted alcohol, and the drug shall bear to the finished product the relation of 1 to 10, the former being calculated as dry drug. In other words a portion of the drug must first be dried, then bruise remainder to a pulp, add 5 times its weight (as dry drug) of alcohol and then enough water to make up twice the approximately of the same relative strength weight of the alcohol used, strain and express as the preparation of the U. S. P., the latter at the end of 14 days, add enough of diluted should always be dispensed for it,

alcohol through the strainer to make up the weight of drug and liquid just expressed, and finally filter the whole.

Inasmuch as fresh drugs are not generally obtainable, dry drugs are usually employed in their stead.

Mother tinctures may be conveniently prepared from ordinary tinctures by dilution with diluted alcohol.

Only distilled water should be used for homeopathic preparations; also the best alcohol should be used for these. Good "cologne spirit" is generally dispensed "homeopathic alcohol."

# Tincture of Mugwort Root, Rademacher's. (Tincture of Artemisia.)

Mugwort root, cut fine.....av.oz. 8 Diluted alcohol ..... fl.oz. 15

Mix, macerate for 8 days, express, and filter.

#### Tinctures, Normal.

The use of the term "normal" as applied to tinctures is confined to Eclectic pharmacy, and it signifies that the product, the "normal tincture," represents the dry drug, weight for weight. They may be prepared from fresh or from dry drugs or by the use of a greater or less proportion of alcohol in the menstruum, but the strength of the product is always based upon the drug in a dry con-Good fluid extracts may always be dition. dispensed in place of the corresponding "normal tinctures."

Normal tinctures are designated by Eclectics for brevity's sake, as "tinctures (n)." Tinctures one-half the strength of normal tinctures are called semi-normal (n); one-fifth as quinti-normal  $\binom{n}{s}$ ; one-tenth as decinormal (<sup>n</sup><sub>10</sub>), etc.

# Tincture of Nux Vomica, Rademacher's. (Tinctura Nucum Vomicarum.-Tinctura Strychni.)

The Rademacher tincture is to be prepared from grated or rasped nux vomica by maceration with diluted alcohol. Inasmuch as it is

#### Tincture of Opium, Ammoniated.

Opiumgr.	80
Spanish saffrongr.	
Benzoic acidgr.	144
Oil of anisem.	50
Stronger water of ammoniafl.oz.	31⁄4
Alcoholsuffic	ient

Mix the first five ingredients with 13 fluidounces of alcohol, macerate for 7 days, agitating occasionally, express, filter, and add enough alcohol to the filtrate to make 16 fluidounces.—Brit. Pharm.

# Tincture of Opium, Benzoated.

(Anisated Tincture of Opium.—Compound Tincture of Camphor.)

These are various terms used to designate paregoric or camphorated tincture of opium.

A rapid process for making this preparation is as follows:

Tincture of opiumfl.dr.	5
Spirit of campherfl.dr.	5
Oil of anisefl.dr.	
Benzoic acidgr.	30´ ¯
Diluted alcohol, enough to makefl.oz.	16

Mix, dissolve, and filter.

#### Tincture of Opium Compound.

Tincture of opiumfl.oz.	3
Tincture of capsicumfl.oz.	3
Spirit of camphorfl.oz.	3
Chloroform	
Alcohol, enough to makefl.oz.	

# Tincture of Opium, Crocated.

(Tinctura Opii Crocata.—Tincture of Opium and Saffron.—Sydenham's Laudanum.—Compound Wine of Opium.)

Opium, powderav.oz.	
Spanish saffronav.oz.	1/2
Cloves, bruisedgr.	90
Cassia bark, coarse powdergr.	90
Alcoholfl.oz.	634
Waterfl.oz.	914

Mix all, macerate for 7 days, agitating occasionally, and filter.—Germ. Pharm.

# Tincture of Phosphorus, Compound.

Phosphorusgr.	8
Chloroformfl.dr.	14
Alcohol, enough to makefl.oz.	10

Place the phosphorus in a stoppered bottle, apply the heat of a water bath until

dissolved, and then add the alcohol, then shake well.

This tincture should be protected from the light, in accurately stoppered bottles.

Each fluidram contains A grain of phosphorus.—Brit. Pharm.

Tincture of Poison Oak. (Tincture of Poison Ivy.)

Fresh leaves of rhus toxico-

Macerate for 14 days, express and filter in a well-covered funnel—Eclectic.

#### Tincture of Podophyllum.

Podophyllum, fine powder....av.oz. 34 Alcohol .....sufficient

Extract the drug by percolation with alcohol so as to obtain 16 fluidounces of product. --Eclectic.

#### Tincture of Poke Root.

Poke root, fine powder .....av.oz. 3½ Diluted alcohol .....sufficient

Extract the drug by percolation with diluted alcohol so as to obtain 16 fluidounces of product.—Eclectic.

#### Tincture of Poke Root, Compound.

Fluid extract of poke ......fl.oz. 3 Fluid extract of cardamom....fl.dr. 1 Diluted alcohol, enough to make.fl.oz. 16 Mix and filter.

#### Tincture of Prickly Ash Berries.

Prickly ash berries, fine powder.av.oz. 41/2 Diluted alcohol.....sufficient

Extract the drug by percolation with diluted alcohol so as to obtain 16 fluidounces of product.—Eclectic.

# Tincture of Pulsatilla.

Pulsatilla herb, fresh.....av.oz. 81/2 Absolute alcohol.....sufficient

Cut the herb into small pieces and add absolute alcohol enough so that the product will measure 16 fluidounces; macerate for 14 days, express and filter.—Eclectic.

# Tincture of Quinine.

Quinine sulphate.....gr. 128 Tincture of bitter orange peel..fl.oz. 16 —Brit. Pharm.

Tincture of Quinine, Ammonisted.	Tincture of Savin, Compound.
Quinine sulphategr. 128 Water of ammoniafl.oz. 2 Diluted alcoholfl.ozt 14	Fluid extract of savinfl.oz. 1 Tincture of castorfl.oz. 7½ Tincture of myrrhfl.oz. 7½
Dissolve the sulphate of quinine in the alcohol with aid of a gentle heat and add the ammonia.—Brit. Pharm.	Tincture of Senna, Compound. (Elixir Salutis.—Elixir of Health.)
Tincture of Quillaja. (Tincture of Soap Bark.)	Alexandria senna, cutgr. 480 Jalap, finely powderedgr. 240 Coriandergr. 120 Raisins, deprived of seedsav.oz. 1½ Diluted alcoholfl.oz. 16
Quillaja, coarse powderav.oz. 34 Alcoholfl.oz. 53 Watersufficient	Macerate for 7 days, shaking occasionally, and filter.—Eclectic.
Boil the quillaja with 13 fluidounces of	
water for 15 minutes, strain, wash the residue on the strainer, with 1½ fluidounces of	Tincture of Serpentaria, Compound. (Sudorific Tincture.)
water, boil the strain liquid down to 10 fluid- ounces, allow to cool, add the alcohol, filter, and through the filtrate add enough water to make the filtrate measure 16 fluidounces.— U. S. P.	Serpentaria         gr. 160           Ipecac         gr. 160           Spanish saffron         gr. 160           Camphor         gr. 160           Opium         gr. 160           Diluted alcohol         fl.oz. 16
Tincture of Rhubarb, Compound.	Macerate the finely powdered drugs with
Rhubarb	the diluted alcohol for 7 days, agitating occasionally, and filter.—Eclectic.
Gentiangr. 192 Prickly ash berriesgr. 193 Diluted alcoholsufficient	Tincture of Shepherd's Purse, Rade- macher's. (Tinctura Bursæ Pastoris.)
Mix the drugs, reduce to fine powder, and extract with diluted alcohol, by percolation so	Shepherd's purse herb, freshly gatheredav.oz. 10 Alcoholfl.oz. 12
as to obtain 16 fluidounces of product.— Eclectic.	Contuse the herb to pulp, add the alcohol, macerate for 7 days, express and filter.
Tincture of Rhubarb, Koelreuter's.	Tincture of Skunk Cabbage.
Rhubarb, cut fineav.oz. 2½ Bitter orange peel, cut finegr. 360 Centaury, cut finegr. 180	Skunk cabbage, recently driedav.oz. 34 Diluted alcoholsufficient
Fennal, crushedgr. 110 Distilled waterfl.oz. 9 Alcoholfl.oz. 7½	Extract the drug in fine powder by perco- lation with diluted alcohol so as to obtain 16 fluidounces of product.—Eclectic.
Mix and macerate for 8 days, strain and filter.	Tincture of Stavesacre.
Tincture of Saffron. (Tincture of Crocus.)	Stavesacre seed, fine powderav.oz. 11
Saffronav.oz. 134 Diluted alcoholsufficient	Absolute alcohol
Extract the drug by percolation so as to obtain 16 fluidounces of productU. S. P.	so as to obtain 16 fluidounces of product.— Eclectic.
Tincture of Savin.	Tincture of Stillingia.
Savin, coarse powder,av.oz. 2 Diluted alcoholsufficient	Stillingia, fine powderav.oz. 3 Diluted alcoholsufficien:
Extract the drug by percolation so as to obtain 16 fluidounces of tincture.—Brit. Pharm.	Extract the drug by percolation with diluted alcohol so as to obtain 16 fluidounces of product.—Eclectic.

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#### Tincture of Strychnine.

Strychni	ine	(al	lka	loio	i)	• • •		gr.	12
Alcohol	••	•••	•••	•••	•••	••	• • • •	fl.oz.	4

Agitate occasionally until dissolved — Brit. Pharm.

#### Tincture of Strychnine, Compound.

Strychnine (alkaloid)	gr.	16
Acetic acidfl.	dr.	4
Compound tincture of carda-		
momfl.	dr.	4
Waterfl.	oz.	7%
Alcoholfl.		
		· · ·

Dissolve the strychnine in the alcohol and acetic acid, add the remaining ingredients, and filter.—Eclectic.

#### Tincture of Sulphur.

Washed s	ulphur.					.:		.290
Absolute	alcohol.	•••	••	••	••	••	.fl.oz.	16

Mix, macerate for 4 days, agitating occasionally, and filter.—H.

#### Tincture of Sulphur, Homeopathic.

Washed	sulphur	av.oz.	11/2
Alcohol	•••••••••••••	fl.oz.	16

Mix, macerate for 8 days, shaking twice a day, decanting the clear liquid, and filtering. This is considered equal to the first centesimal potency.

#### Tincture of Tolu.

Tolu						.av.oz.	11
Tolu Alcohol,	enough	to	make .	•	••	fl. oz.	16

Mix, agitate occasionally until dissolved, and filter.-U. S. P.

#### Tincture of Valerian, Ethereal.

Valerian powder ......av.oz. 21/2 Spirit of ether.....sufficient

Mix the drug with 15 fluidounces of spirit, macerate for 7 days, agitating occasionally, express, add enough spirit of ether to make 15 fluidounces, and filter in a closely covered funnel.—Germ. Pharm.

# Tincture of Wahoo. (Tincture of Euonymus.)

Wahoo bark, powder.....av.oz. 3¼ Alcohol .....sufficient

Extract the drug by percolation so as to obtain 16 fluidounces of product.—Brit. Form.

#### Tincture of Water Pepper.

Water-pepper .....av.oz. 41 Diluted alcohol.....sufficient

Extract the powdered drug by percolation with diluted alcohol so as to obtain 16 fluidounces of product.—Eclectic.

#### Tincture of Witch Hazel Bark.

Hamamelis bark, No. 20 pow-

der .....av.oz. 1¥ Diluted alcohol, enough to make. fl.oz. 16

Extract the drug by percolation.—Brit. Form.

Tincture of Wormwood. (Tincture of Absinthium.)

Wormwoodav.oz.	3
Waterfl.oz.	31
Alcoholfl.oz.	12 1/2

Mix, macerate for 7 days, agitating occasionally, express, and filter —Germ. Pharm.

This may also be prepared by extracting the powdered drug by percolation.

# Tincture of Wormwood, Compound.

(Bitter Stomach Drops.)

Wormwood	дт. 520
Blessed thistle	дт. 130
Galangal root	
Orange berries	gr. 130
Diluted alcohol	

Mix the drugs, reduce to powder, and extract by percolation with diluted alcohol so as to obtain 16 fluidounces of product..

#### Tisanes.

This is the French appellation for the class of preparations known to us as "infusions."

#### Transfusion Fluid.

A. (Billroth's.)	
Sodium phosphategr.	3
Sodium carbonategr. 20	)
Ammonium carbonategr. 20	)
Sodium chloride	)
Alcohol	)
Distilled water, enough to	
make	)
B. (Little's.)	
Sodium phosphategr. §	3
Potassium chloridegr. (	
Sodium carbonategr. 40	)
Sodium chloridegr. 60	
Distilled water, enough to make.fl.oz. 20	

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# C. (Weber's.)

Sodium bicarbonateg	r.	6
Calcium chlorideg	r.	6
Potassium chlorideg	r.	6
Sodium chlorideg	r. (	480
Distilled water, enough to		-
makefl.o	z.	- 8

For use, dilute 1 fluidounce of this solution with water at 50 degrees C., so as to make 16 fluidounces.

#### Turpentine, Canada.

This is Balsam of Fir.

#### Turpentine Venice, Factitious.

Gum turpentineav.oz.	10
White resinav.oz.	3
Oil of turpentinefl.oz.	10

Melt the resin, add the turpentine, allow  $it t \circ$  melt, then add the oil, and strain.

Vinegar	of	Bloodroot.	(Vinegar	of
Sangui	inaria	.)		

Bloodroot,	powderav.	oz. 1¾
Diluted ac	etic acidsuffi	cient

Extract the drug by percolation so as to btain 16 fluidounces of product.—U. S. P. 18880 and N. F.

#### Vinegar of Cantharides.

Cantharides, powder.....gr. 700 Glacial acetic acid .....fl.dr. 18 Acetic acid ......sufficient

Mix 10 fluidounces of acetic acid with the glacial acid, add the drug, maintain at a temperature of 94 degrees C., for 2 hours, allow to cool, and transfer to a percolate; after the liquid has drained off, add enough acetic acid through the percolator to make the liquid measure 16 fluidounces.—Brit. Pharm.

#### Vinegar of Ipecac.

Ipecac in No. 20	powdergr. and gr. a	<b>36</b> 0
Diluted acetic acl	d, enough to	

make..... fl.oz. 16

Extract the drug by percolation.—Brit. Pharm.

#### Vinegar of Lobelia.

Lobelia, powder.....av.oz. 134 Diluted acetic acid.....sufficient

Extract the drug by percolation so as to obtain 16 fluidounces of product.—U. S P. 1880 and N. F.

#### Vinegar of Sabadilla.

Sabadilla, powderav.oz.	11/
Diluted acetic acidfl.oz.	
Alcoholfl.oz.	

Macerate for 7 days, then filter.

This preparation is useful for the extermination of vermin upon the body.

# Vinegar, White Wine, Imitation.

Acetic acidfl.oz.	16
Tartaric acidav.oz.	1
Acetic etherfl.dr.	4
White winefl.oz.	16
Waterfl.oz.	

Water, Acorn, Rademacher's. (Aqua Glandium.—Aqua Quercus.)

Acorns, outer l	deprived ulls, in co	of th arse po	e hard wder av.oz.	94
Alcohol		<del>.</del>	fl.oz.	ิ่ง
Water	• • • • • • • • •	• • • • • •	fl. oz.	32

Mix, macerate for 24 hours, and then distill off 16 fluidounces.

#### Water, Bromine.

Bromine	. drops 4
Distilled water	.fl.oz. 1
	—н.

#### Water, Caraway.

Mix  $1\frac{1}{4}$  av. ounces of bruised caraway seed with 32 fluidounces of water and distill off 16 fluidounces.—Brit. Pharm.

A quicker process is to triturate 15 drops of oil of caraway with  $\frac{1}{2}$  av. ounce of purified talcum until well mixed, then add 16 fluidounces of distilled water, macerate for 6 hours, and filter.

# Water, Carbolized.

I.

II.

Glycerite of carbolic acid, U. S. P.	
1870fl.oz. 1 🖌	
Waterfl.oz. 16	

If it is not desired to keep the glycerite on hand, the above may be prepared (approximately) from 2 fluidrams of carbolic acid in the fluid form, as it is usually kept on hand by pharmacists for dispensing purposes; 1 fluidounce of glycerin, and enough water to make 16 fluidounces.

Carbolic acid, liquefied ......fl.dr. 4 Distilled water.....fl.oz. 14½ —Germ. and Austr. Pharms,

100 THE STANDAR	D TOKMOLART.
Water, Carminative. (Aqua Carminativa. —Wind Wasser.)	Water, Dill. (Aqua Anethi.) Dill fruit (seed)av.oz. 14 Waterfl.oz. 32
Oil of orangedrops 7         Oil of carawaydrops 7         Oil of lemondrops 7         Oil of fenneldrops 7         Oil of corianderdrops 7	Mix and distill off 16 fluidounces.—Brit. Pharm. This may be prepared by triturating 15
Oil of spearmintdrops 7 Alcohol fl.oz. 2 Chamomile waterfl.oz. 14	drops of oil of dill with $\frac{1}{2}$ av. ounce of purified talcum until well mixed, add 16 fluid- ounces of distilled water, macerate for 6
Mix the oils with the alcohol, add the water and filter.—H.	hours, and filter.
Water, Castor, Rademacher's. (Aqua	Water, Linden.
Castoreum.)	Linden flowers, dryav.oz.
Canadian castor, cut fine, av.oz. 2½ Alcohol fl.oz. 3 Water fl.oz. 32	Waterfl.oz. 32 Mix and distill off 16 fluidounces. Linden flowers are derived from our com-
Mix, macerate for 12 hours, and distill off	mon basswood tree. Instead of one-half
16 fluidounces Water, Chamomile.	ounce of the dry leaves, 2½ ounces of the fresh leaves may be employed.—D. modi-
Chamomile $\dots$ av.oz. $1\frac{1}{4}$	fied.
Waterfl.oz. 48	Water, Nux Vomica, Rademacher's.
Mix, macerate for 24 hours, and distill off 16 fluidounces.—Austr. Pharm.	(Aqua Nucum Vomicarum.—Aqua Strýchni Seminis.)
A quicker process is to triturate 15 drops of oil of chamomile with $\frac{1}{2}$ av. ounce of puri- fied talcum until well mixed, then add 16 fluidounces of distilled water, macerate for 6	Nux vomica, cut into small piecesav.oz. 10 Alcoholfl.oz. 2 Waterfl.oz. 32
hours, and filter.	Mix, macerate for 24 hours and distill off
Water, Cherry. (Aqua Cerasorum Nigro- rum.)	16 fluidounces.
Bitter almond waterfl.dr. 7	Water, Pimento.
Distilled water, enough to make fl.oz. 16	Pimento, bruisedav.oz.         11           Water
Water, Chlorine.	Mix and distill off 16 fluidounces.—Brit.
A rapid process and one that is entirely satisfactory is as follows:	Pharm. It may also be prepared by triturating 15
Potassium chlorate	drops of oil of pimento with $\frac{1}{2}$ av. ounce of purified talcum until well mixed, adding 16 fluidounces of water, macerating
Mix the salt with the acid in a bottle and when vapors begin to be evolved add 1	for 6 hours and filtering. Water, Quassia, Bademacher's.
fluidounce of water, stopper the bottle, shake well until the crystals are dissolved, and	
then add the remainder of the water.	Quassia woodav.oz. 6 Alcoholfl.oz. 2 Waterfl.oz. 32
Water, Crystal. (Aqua Crystallina.)	Mix, macerate for 24 hours, and distill off
Potassium bitartrategr. 120 Sugarav.oz. 1 Waterfl.oz. 15	16 fluidounces.
Mix, dissolve and filter. This is a pleas-	Water, Tar.
ant beverage for use in febrile disease.	See Infusion of Tar.

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# Water, Tobacco, Rademacher's. (Aqua Nicotianæ.)

Tobacco	leaves, freshly gath-	
ered		16
Alcohol .	fl.oz.	4
Water	fl.oz.	64

Concise the leaves, bruise in a mortar, add the alcohol and water, macerate for 12 hours, and then distill off 16 fluidounces.

# Water, Tolu.

Tincture of tolufl.dr.	1
Magnesium carbonategr.	60
Water	16

Triturate the tincture with the magnesium carbonate until well mixed, add the water gradually with stirring, and filter.

This is used to some extent in lieu of distilled water for making mucilage of acacia.

#### Wax, Yellow, Filtered.

Yellow	wax		av.oz.	16
Sodium	sulphate, (	dried, in	n fine	
powd	er		gr.	350

Melt the wax at the lowest possible temperature, add the sodium sulphate, maintain the wax at the same temperature for 4 hours, stirring frequently, and filter by hot filtration.

This is an excellent product suitable for white ointments and cerates provided the temperature employed in preparation was not too high.—D.

### Wine of Aloes.

Purified aloesav.oz	. 1
Cardamomgr	
Gingergr	
Alcohol,	
White wine of each, suffic	ient

Mix the three drugs, reduce to coarse powder, add 2 fluidounces of alcohol and 14 of wine, macerate for 7 days, agitating occasionally, and filter; add through the filter enough of a mixture of one part of alcohol to 7 of wine by volume to make the filtrate measure 16 fluidounces.—U. S. P. 1880.

Wine of Beef and Iron. (Beef, Wine and Iron.)

Extract of beefgr.	256
Tincture of citro-chloride of	
ironfl.dr.	41
Water, hotfl.oz.	1
Sherry wine, enough to makefl.oz.	

Pour the hot water on the extract of beef Germ. Pharm.

contained in a mortar or other suitable vessel, and triturate until a smooth mixture results. Then gradually add, while stirring, 12 fluidounces of sherry wine. Next add the tincture and the remainder of the wine. Transfer the mixture to a bottle, set this aside for a few days in a cold place, if convenient, filter, and pass enough sherry wine through the filter to restore the original volume.

# Wine of Beef, Iron and Cinchona.

(Beef, Wine, Iron and Cinchona.)

Extract of beefgr.	256
Tincture of citro-chloride of	
	41/2
Quinine sulphategr.	16
Cinchonidine sulphategr.	8
Citric acidgr.	6
Water, hotfl.oz.	1
Angelica wine. enough to make.fl.oz.	16

Dissolve the citric acid and the quinine and cinchonidine sulphates in the hot water, and pour the solution upon the extract of beef contained in a mortar or other suitable vessel. Triturate the liquid with the extract, until they form a smooth mixture, then gradually add, while stirring, 12 fluidounces of angelica wine, and afterwards the tincture of citro-chloride of iron. Transfer the mixture to a bottle, set this aside for a few days in a cold place, if convenient; filter, and pass the remainder of the angelica wine.

## Wine of Beef, Iron and Coca.

Extract of beefgr.	256
Tincture of citro-chloride of ironm.	256
Water, hotfl.oz.	1
Simple syrupfl.oz.	1
Fluid extract of cocafl.dr.	101/2
Sherry wine, enough to makefl.oz.	16

Triturate the extract of beef with the water until dissolved, add 10 fluidounces of wine, then the tincture, syrup, fluid extract, and the remainder of the wine, and filter.

Each 1/2 fluidounce represents 8 gr. of beef extract, 8 m. of tincture of iron, and 20 m. of coca.

#### Wine of Cinchona.

Yellow cinchona, coarse powder...av.oz. 34 Port wine.....fl.oz. 16

Macerate for 8 days and then filter. ferm. Pharm.

#### Wine of Cinchona, Compound.

Yellow cinchonaav.oz.	11
Bitter orange peelgr.	75
Chamomilegr.	75
Alcoholfl.oz.	
White winefl.oz.	

Bruise the drugs, macerate in the mixed alcohol and wine for 10 days, agitating occasionally, and filter.—Codex.

#### Wine of Cinchona and Cacao.

Fluid extract of yellow cin-	
chonafl.oz.	1
Tincture of cacaofl.oz.	1
Simple syrupfl.oz.	2
Angelica winefl.oz.	12
Mix and filter, if necessary.	

# Wine of Cinchona and Coca.

Fluid	extract of cocafl.	oz. 1
Wine	of cinchona and cacaofl.	oz. 15

#### Wine of Cod Liver Oil.

Gaduolgr.	64
Alcoholfl.dr.	4
Simple syrupfl.oz.	2
Fuller's earthgr.	
Port wineenough to make fl.oz.	

Mix the gaduol with the alcohol, and add the fuller's earth, rub well together, and then add the syrup and 13 fluidounces of wine, let stand a day or two, shaking occasionally, then filter, passing the remainder of the wine through the filter.

A preparation of the same character but of a more distinctive taste and appearance may be compounded as follows:

Gaduolgr.	64
Alcoholfl.dr.	4
Fuller's earthgr.	240
Port wine, claret wine, equal parts	
of each, enough to make fl.oz.	16
Descend on hofers	

Proceed as before.

Compounds prepared as above contain 25 per cent of the active medicinal principles of cod liver oil.

# Wine of Columbo.

Columbo,	coarse	powder	av. oz.	1
Red wine.			fl.oz.	16

Mix, macerate for 10 days, agitating occasionally, express, and filter.—Codex.

#### Wine of Creosote.

Glycerite	A.oz.	4
Simple syrup	l.oz.	2%
Water		
White wine	1.oz.	5%

This contains 21 per cent of creosote.

#### Wine of Creosote, Compound.

Creosotefl.dr.	2
Alcoholfl.dr.	4
Tincture of gentianfl.oz.	5
Sherry wineenough to make fl.oz.	16

# Wine of Damiana. · (Wine of Turnera.)

Fluid extract of damianafl.oz.	3
Simple elixirfl.oz.	3
Sherry winefl.oz.	10
Mix and filter if necessary	

Mix and filter, if necessary.

#### Wine, Diuretic, Hufeland's.

Fluid extract of	bryony	 	.fl.oz.	1
Sherry wine		 	.fl.oz.	11

# Wine of Elder Bark. (Hydragogue Tincture.)

Elder barkgr.	
Parsley rootgr.	
Sherry winesufhc	ient

Extract the mixed drugs by percolation with the wine so as to obtain 16 fluidounces of product.—Eclectic.

#### Wine of Golden Seal, Compound. (Wine Bitters.)

Golden sealgr.	20
Tulip tree barkgr.	20
Bitter root (dogsbane)gr.	20
Prickley ash berriesgr.	
Sassafras barkgr.	10
Capsicumgr.	10
Sherry wine sufficient	

Extract the mixed drugs in coarse powder by percolation with the wine so as to obtain 16 fluidounces of product.—Eclectic.

#### Wine of Iron, Bitter.

Iron and quinine citrate, soluble..gr. 360 Tincture of sweet orange peel..fl.oz. 2½ Simple syrup .....fl.oz. 5 White wine...enough to make fl.oz. 16

Dissolve the iron and quinine citrate in 8 fluidounces of wine, add to this the tincture, syrup, and remainder of the wine, set aside for several days, and filter.—U. S P.

#### Wine of Kola.

Elixin	of kolafl.oz.	8
Clare	winefl.oz.	8
Mix;	let stand for 24 hours, and filter	

# Wine of Iron, Sweet.

à

Bitter orange peel, powdergr. 80 Citrate of iron, solublegr. 120 Water	Cinchona, powdergr.	60
Citrate of iron, soluble		30
Citrate of iron, solublegr. 120 Waterfl.oz. 33 Sherry winefl.oz. 7 Tincture of sweet orange peel.fl.oz. 34	Citric acidgr.	30
Sherry winefl.oz. 7 Tincture of sweet orange peel.fl.oz. 34	Citrate of iron, solublegr.	120
Tincture of sweet orange peel.fl.oz. 31	Waterfl.oz.	31/2
Tincture of sweet orange peel.fl.oz. 31	Sherry winefl.oz.	7`
Simple syrupfl.dr. 14		- 84
	Simple syrupfl.dr.	14

Mix the tincture with the water and with this percolate the mixed cinchona and orange peel, adding enough more of the same menstruum to make 7 fluidounces, add to this the citric acid and iron salt dissolved in the wine, then add the syrup and filter.

#### Wine of Iron and Quinine Citrate.

Citrate of iron and quininegr.	48
Water, hotfl.oz.	2
Syrup of lemonfl.oz.	
Sherry wine enough to make fl.oz.	

Dissolve the iron and quinine citrate in the water, add the other ingredients, and filter if necessary.

# Wine of Iron and Potassium Tartrate.

 Tartrate of iron and potassium..gr. 160

 Water, hot
 fl.dr. 4

 Water of ammonia
 sufficient

 Angelica wine, enough to make fl.oz. 16

Dissolve the salt in the water, carefully neutralize the acid in the wine with ammonia, mix the two liquids, and filter.

# Wine of Licorice with Opium.

(Vinum Liquiritiæ Thebaicum.)

Opium powdergr. 14	15
Spanish saffron, coarsely pow-	
deredgr. 14	15
Extract of licorice, powdergr. 14	15
Malaga wine sufficier	nt

Macerate the drugs for 5 days with 16 fluidounces of wine, and filter, adding enough wine through the filter to make 16 fluidounces.

The product contains 2 per cent of each of the drugs.

## Wine of Coca.

Elixir of cocafl.oz.	8
Claret winefl.oz.	8
Mix: let stand for 24 hours, and filter.	

#### Wine of Iron Citrate.

Iron citrate, solublegr.	288
Tincture of sweet orange peel.fl.oz.	21/2
Simple syrupfl.oz.	
White wineenough to make fl.oz.	

Dissolve the iron salt in 12 fluidounces of wine, to this add the tincture, syrup, and remainder of the wine, set the mixture aside for several days, and filter.—U. S. P.

# Wine of Orange.

Oil of orange	m.	5
Alcohol	fl.dr.	4
Magnesium carbonate	gr.	240
Simple syrup		
Sherry wine	fl.oz.	18 <del>]</del>

Dissolve the oil in the alcohol, triturate with the magnesium carbonate, add the other ingredients and filter.

#### Wine of Pancreatin.

Pancrea	atin, puregr.	160
Simple	elixirfl.oz.	5
Sherry	winefl.oz.	11

Macerate the pancreatin in the elixir for 24 hours, then add the wine and filter.

# Wine of Quinine.

Quinine sulphategr.	16
Citric acidgr.	
Orange winefl.oz.	16

Mix, let stand for 3 days, agitating occasionally, and filter.—Brit. Pharm.

#### Wine of Wafer Ash. (Wine of Ptelea.)

Wafer ash, powder.....av.oz. 24 White wine.....sufficient

Extract the drug by percolation so as to obtain 16 fluidounces of product.

# Wine of Wormwood. (Wine of Absinthium.)

Wormwood, cut	av.oz.	1/2
Alcohol	fl.oz.	1
Sherry wine	fl.oz.	16

Mix, macerate for 7 days, agitating occasionally, and filter.—Codex.

# HOUSEHOLD REMEDIES.

While this part of the work is not intended | III. in any sense as a treatise upon the manufacture of proprietary medicines, it is proposed to impart to the pharmacist such information as he requires in preparing remedies for ordinary ailments, for popular use and sale, and thereby to replace "patent" medicines. These remedies may be offered by the pharmacist for sale under his own name or that of a pseudonym, if the latter be preferred.

#### Ague Cures.

Remedies for the relief and cure of fever, ague, and chills, or, more properly, malaria, are not of such frequent use as they were some years ago; however, there is still a demand in some sections, and the pharmacist must be prepared to supply the want. Most of these remedies are made to contain cinchona or one or more of its alkaloids, sometimes also arsenic and frequently some iron or a cathartic.

These preparations may assume the form of liquid or pills, or even some other form, but the two mentioned are the most common. They may be entitled "Peruvian Ague Cure," "Ague Tonic, " "Ague Tonic Syrup" "Ague Tonic Cure," "Chill Cure," "Chill Tonic," "Ague Pills," "Anti-Chill Pills," Cholagogue,'' "Ague Remedy," "Ague ""Ague Specific," "Fever and Bitters,' "Febrifuge," "Ague Ague Tonic,'' Specific," etc.

Ι.	
Tincture of eucalyptus (1 in 10) fl.oz.	2
Tincture of serpentariafl.oz.	4
Tincture of capsicum fl.dr.	5
Tincture of myrrhfl.dr.	5
Tincture of nux vomicafl.dr.	2
Quinine sulphategr.	60
Elixir of licorice, enough to make fl.oz.	
II.	
Cinchonidine sulphateav.oz.	23
Aromatic sulphuric acidfl.oz.	1΄
Tincture of chloride of ironfl.oz.	3
Tincture of nux vomicafl.oz.	2
Syrup of ginger, enough to make fl.oz.	64

Quinidine sulphate .....av.oz. Solution of arsenous acid ..... fl.dr. 4 Fluid extract of senna.....fl.oz. 1 Syrup of licorice enough to make fl.oz. 64

Owing to the absence from the above of the bitter taste of quinine, cinchonidine or cinchona bark, it may be termed "Tasteless Chill Cure," "Tasteless Ague Tonic," or "Tasteless Chill Tonic."

IV.

Tincture of valerian .....fl.oz. 41/2 Tincture of cinchona.....fl.oz. 4% Elixir of licorice, enough to make fl. oz. 64 Fluid extract of cinchona.....fl.oz. Aromatic sulphuric acid.....fl.oz. 2 Tincture of ginger.....fl.oz. 3 Fluid extract of cloves.....fl.oz. 1 Fluid extract of rhubarb.....fl.dr. 4 Fluid extract of cinnamon .....fl.dr. 4 Fluid extract of podophyllum . . fl.dr. 1 Alcohol ..... fl.oz. 16 Simple syrup. .enough to make fl.oz. 64 VI. Cinchona, yellow, powder.....av.oz. 4 Cream of tartar.....av.oz. 4 Cloves, powder.....av.oz. 1/2 Dose: A teaspoonful every 3 hours. This preparation has been termed "Dutch Ague Remedy." VII.

#### Make pills, each containing Chinoidine .....gr. 1 Iron ferrocyanide.....gr. 1 Oil of black pepper .....drop 1 Arsenous acid .....gr. -VIII. Make pills, each containing Cinchonidine sulphate .....gr. 3

Podophyllin.....gr. Ginger .....gr. 1/2

## Asthma Remedies.

The number of titles employed to designate asthma remedies is comparatively small; the following are appropriate: "Asthma Remedy," "Asthma Elixir," "Antasthmatic Powder," "Antasthmatic Remedy," "Asthma Cure," "Asthma Mixture," etc.

Asthma remedies are of about three kinds, one for internal administration, one for inhalation, and one to be ignited, the vapor to be inhaled. Favorite ingredients of the first kind are the alkali iodides, ammonium salts, grindelia, wild cherry, lobelia, belladonna, Hoffman's anodyne, etc.

The liquid preparations for inhalation contain amyl nitrite and oil of mustard. Asthma remedies to be used by ignition are usually composed of stramonium, potassium nitrate, belladonna, etc.

I.

Ammonium iodidegr.	120
Tincture of lobeliafl.dr.	2
Tincture of belladonnafl.dr.	2
Fluid extract of grindelia ro-	
bustafl.dr.	4
Fluid extract of licoricefl.dr.	4
Syrup of tolu, enough to make fl.oz.	4

Label: A teaspoonful three times a day. Extra doses to be given during a paroxysm.

II.

Potassium iodidegr.	<b>16</b> 0
Fluid extract of grindeliafl.dr.	
Fluid extract of belladonna fl.dr.	
Tincture of gelsemiumm.	50
Waterfl.oz.	1
Simple elixirenough to make fl.oz.	4

Give one and a half teaspoonfuls every 2 or 3 hours. After about three doses are taken the difficulty of breathing will have disappeared.

#### III.

•	
Ammonium bromidegr. 1	20
Ammonium chloride	
	8
Fluid extract of grindeliafl.oz.	1
Compound spirit of etherfl.oz.	1
Waterfl.oz.	1
Syrup of licorice, enough to	
makefl.oz.	4
IV.	
Stramoniumav.oz.	2
Cannabis indic aav.oz.	1
Lobeliaav.oz.	1
Eucalyptusav.oz.	1
Teaav.oz.	1

Potassium nitrate.....av.oz. 1¼ Reduce all to powder and pass through a No. 30 sieve; then dry thoroughly. If the potassium nitrate be mixed with 8 ounces of water, and the vegetable powder be

moistened with the solution, and then thoroughly dried, it burns better; but if all the ingredients are well dried, and the niter is thoroughly mixed, this is not necessary.

#### V. Potassium iodide......gr. 60 Sodium nitrite......gr. 60 Fluid extract of quebracho...fl.dr. 3 Fluid extract of coffee.....fl.dr. 3 Fluid extract of sanguinaria...drops 15 Syrup of ipecac.....fl.dr. 8 Chloroform water.....fl.oz. 4

This is to be used like Nos. I, II, and III.

#### VI.

Tincture of stramonium	fl.dr. 2
Tincture of lobelia, ethereal	fl.dr. 1
Potassium nitrate	fl.dr. 1
Spirit of nitrous ether	fl.dr. 4
Aromatic tincture	fl.dr. 4
Chloroform water	fl.oz. 2

Directions: Two tablespoonfuls at bed time, and when difficult breathing comes on.

# VII.

Ammonium iodidegr.	120
Ammonium bromidegr.	180
Syrup of tolufl.oz.	3
Tincture of lobeliafl.oz.	

Teaspoonful every 1, 2, 3 or 4 hours.

This is known as "Fothergill's Asthma Mixture."

#### VIII.

Hoffman's anodyne	.fl.oz. 1
Syrup of tar	.fl.oz. 1
Syrup of wild cherry	.fl.oz. 2
Syrup of lactucarium	.fl.oz. 2

Dose: A teaspoonful every 2 or 3 hours as needed.

#### IX.

Amyl nitrite	.fl.dr.	2
Oil of mustard (essential)	drops.	10
Ether		
Alcohol	. fl. oz.	4

Put a few drops of the liquid upon some cotton or sponge and inhale from the latter. X.

Fluid extract of grindelia ro-

busta	fl.dr.	2
Potassium iodide	gr.	.60
Tincture of opium	fl.dr.	2
Hoffman's anodyne	fl.dr.	4
Syrup of wild cherry, enough		
to make	.fl.oz.	4

Dose: Two teaspoonfuls,

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100 THE STANDAR	D FORM CLART.
XI. Stramonium leavesav.oz. 1 Belladonna leavesav.oz. 1	Barber's Itch, Remedies for.
Saltpetregr. 72 Opium	Resorcin         av.oz. 1           Glycerin         fl.oz. 1           Water         fl.oz. 1
Mix the drugs in powder. This is to be burned and the vapors inhaled.	Colognefl.dr. 4 Lac sulphurav.oz. 1½
XII.	Alcohol
Cubeb       av.oz.       1         Digitalis       av.oz.       1         Jaborandi       av.oz.       1         Stramonium       av.oz.       2         Potassium nitrate       av.oz.       1         Grindelia       av.oz.       1         Eucalyptus       av.oz.       1         Cascarilla       gr.       60         Mix when perfectly dry, and burn from 1       to 2 drams, inhaling the fumes.	Apply several times daily.         II.         Shave off the hairs or cut them very short;         then apply, once or twice a week, an oint-         ment composed of:         Prepared chalkav.oz. 1         Coal targr. 45 to 180         Glycerinfl.dr. 4         Simple cerateav.oz. 5
XIII. Potassium nitrateav.oz. Aniseedav.oz. Stramoniumav.oz. 1	III. Shave the affected part closely every day and rub in this ointment twice daily: Tannic acidgr. 90
Mix all in powder, and use like the pre-	Lac sulphurgr. 180 Zinc oxideav.oz. 1
ceding. XIV. Stramonium, cutav.oz. 10	Starch av.oz. 1 Petrolatum av.oz. 2
Alcohol	IV. During the inflammatory stage the fol- lowing may be applied:
Potassium carbonategr. 8 Waterfl.oz. 16 Moisten the stramonium leaves with the alcohol, allow it to remain tightly packed in a well-covered vessel for 24 hours; dissolve	Ichthyol
the salts in the water, and impregnate the	This to be kept constantly applied to the
leaves with the solution; again pack them	affected parts.
tightly as before, and allow to remain for 24 hours, then remove them and dry carefully. XV.	V. Ichthyolgr. 30 Salicylic acidgr. 48
The Paper of Potassium Nitrate of the U.S.P. may be used. It is prepared by immersing strips of white unsized paper in a	Mercury oleategr. 120 Zinc oxidegr. 210 Starchgr. 210 Petrolatumgr. 420
solution of potassium nitrate in 4 parts of water, and then drying them. In using they are to be ignited and the vapor inhaled.	VI. Tannic acidgr. 15 Sulphur, precipitatedgr. 30 Petrolatumgr. 300
XVI.	VII.
Cigarettes may be prepared from a mix- ture of equal parts of stramonium, lobelia,	Other remedies may be found under the head of "Eczema Remedies," "Remedies for Itch," and "Ointments or Salves."
and belladonna herbs. These may be cut to a very fine condition, then rolled in suitable paper, and sealing the ends to prevent the	Bitters.
drug from falling out by turning up the ends of the paper.	Suitable names for these preparations are "Wahoo Bitters," "Jaundice Bitters,"
	·

"Stomach Bitters," "Hop Bitters," "Planta-	IV.
tion Bitters," "American Plant Bitters," "Prickly Ash Bitters," "Tonic Bitters," "Iron Tonic Bitters," "Blood Bitters," "Liver Bitters," "German Bitters," "Spring Bitters," "Burdock Bitters," etc. These preparations differ greatly from one another. All are stomachics and tonics;	Cascara sagradaav.oz.4Dandelionav.oz.Gentianav.oz.German chamomil eav.oz.Stillingiaav.oz.Bitter orange peelav.oz.Clovesgr.1ClovesSpirit of orangefl.oz.
some are cathartics, others diuretics; some are also alterative.	Sugarav.oz. 16 Alcohol, Waterof each, sufficient
Some "bitters" are simply disguised "drinks."	Mix the seven drugs and reduce to mod- erately coarse powder, extract by percolation with a mixture of 1 part of alcohol to 8 of
I.	water so as to obtain 120 fluidounces of prod-
Gentianav.oz. 134 Bitter orange peelgr. 240	uct. To this add the spirit of orange and the sugar; dissolve the latter by agitation.
Calamus	v.
iron	Wahoo bark.         .av.oz.         3½           Gentian         .av.oz.         1½           Tamarack bark         .av.oz.         1½           Frasera         .av.oz.         1½
Extract the drug with a mixture of alcohol	Dogwood barkav.oz. 1
and water in the proportion of 1 of the former	Golden sealav.oz. 8
to 2 of the latter, to obtain 12 fluidounces of	Canada snake rootav.oz. 134 Angelica rootav.oz. 2
product, to which add the iron tincture and	Serpentaria
glucose.	Prickly ash berriesav.oz. 1/2
giucose.	Podophyllumav.oz. 1 Canella barkav.oz. 2
II.	Buckthornav.oz. 1
Aloes	Sugarav.oz. 30
Sassafras	Alcohol, Waterof each, sufficient
Gentian av.oz. 4	Mix the drugs, reduce to moderately coarse
Chamomileav.oz. 2 Acetic acidav.oz. 1	powder, and extract by percolation with a
Alcohol	menstruum consisting of 1 part of alcohol
Waterenough to make gal. 1	to 3 of water by measure so as to obtain 112
Mix the acid and alcohol with 2 quarts of	fluidounces of percolate; in this dissolve the
water, also mix the drugs, reduce to coarse	sugar by agitation or percolation.
powder, pack and macerate in a percolator,	
pass the previous mixture through it, and	VI.
then enough hot water to make 1 gallon.	Hops         av.oz.         4           Dandelion         av.oz.         4           Gentian         av.oz.         4
III.	German chamomile
Fluid extract of gentianfl.oz. 1 Fluid extract of yellow cin- chonafl.oz. 1	Stillingiaav.oz. 4 Sugarav.oz. 32 Water,
Quinine sulphategr. 120 Iron citrate, solubleav.oz. 2	Alcoholof each, sufficient
Spirit of orange flor 1	Mix the drugs, reduce to coarse powder and

Mix the drugs, reduce to coarse powder and extract by percolation so as to obtain 110 fluidounces of percolate, using a menstruum composed of 1 part of alcohol to 3 of water, by measure; in this percolate dissolve the sugar by agitation or percolation.

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Spirit of orange......fl.oz. Simple syrup .....fl.oz. Water, hot .....fl.oz. Sherry wine...enough to make gal.

other ingredients, and filter.

Dissolve the iron salt in the water, add the

#### VII.

Sugarav.oz. 6	
Calamus rootav.oz. 6	
Bitter orange peelav.oz. 6	
Peruvian barkav.oz. 6	
Gentian	
Calumba av.oz. 🛔	
Rhubarb	
Cinnamon	
Cloves	
Diluted alcoholgal. 1	

Reduce all the drugs to a coarse powder, and macerate two weeks with the menstruum; then strain, express and filter.

#### VIII.

Orange peel, groundav.oz.	6
Gentian root, ground av.oz.	4
Roman chamomile flowersav.oz.	
Rye whiskeygal	1

Macerate for 7 days, occasionally shaking the mixture; then express and filter through paper.

#### IX.

Gentian root, groundav.oz.	21
Bitter orange peelav.oz.	1 <del>.</del>
Canella, groundav.oz.	3/4
Cochineal, bruisedgr.	
Alcohol fl.oz.	16
Waterfl.oz.	16

Macerate for 7 days in a suitable vessel, occasionally agitating; express and filter through paper.

#### Х.

Gentian	av.oz. 4
Peruvian bark	av.oz. 2
Roman chamomile flowers	av.oz. 1
Quassia	av.oz. 🔒
Bitter orange peel	av.oz. 🛓
Diluted alcohol	

Mix the drugs, reduce to coarse powder, mix with the diluted alcohol, macerate for 7 days, agitating occasionally, then express and filter.

XI.

Orange berriesav.oz.	5
Orange peel, bittergr.	200
Calamusgr.	
Pimpinellagr.	100
Hopsgr.	50
Simple syrupfl.oz.	4
Diluted alcohol suffic	cient

Mix the drugs, reduce to fine powder, extract by percolation with the diluted alcohol so as to obtain 124 fluidounces of product, and to this add the syrup.

#### **Blood Purifiers.**

These preparations may be put up under the names of "Sarsaparilla" "Sarsaparilla Syrup," "Compound Extract of Sarsaparilla," "Compound Sarsaparilla with Burdock and Iodide of Potassium," "Compound Syrup of Red Clover Blossoms," "Blood Purifying Tea," "Alterative Mixture," "Blood Cleanser," or whatever other title may be appropriate, or desirable.

The ingredients of this mixture are sarsaparilla, stillingia, burdock, yellow dock, red clover, any one or more of these combined, sometimes with potassium iodide, often with some laxative. Blood-purifying mixtures are in fact mainly cathartics.

Formerly all blood purifiers were prepared in the liquid form; latterly some are prepared in the form of "teas," or species. Examples of both kinds are given among the recipes that follow. The "teas" may be termed "Blood-Purifying Tea," "Sarsaparilla Tea," etc.

Potassium iodidegr.	
Water	2
Fluid extract of burdockfl.oz.	2
Compound fluid extract of sar-	
saparillafl.oz.	8
Syrupy glucose, enough to makefl.oz.	16

Mix. Dose, 1 to 4 teaspoonfuls, according to age.

#### II.

I.

Buckthorn barkav.oz. Rochelle saltav.oz. Potassium bicarbonategr.	8
Sugarav.oz.	24
Alcoholfl.oz. Spirit of lemonfl.dr.	
Tincture of gingerfl.dr.	6
Oil anisedrops Watersuffici	

With sufficient water make 6 pints of decoction from the buckthorn bark, which may be deprived of bitterness by the addition of calcined magnesia (see Bitterless Extract of Cascara Sagrada, Part I) and dissolve in it the Rochelle salt, potassium bicarbonate and sugar. After allowing to stand for some time, clarify by straining through flannel. Then mix the remaining ingredients and incorporate with the

# 1**6**8

decoction. The dose is from 1 to 2 tablespoonfuls morning and evening, some time after meals.

111.	
Cream of tartarav.oz.	
Potassium bicarbonategr.	150
Fluid extract of podophyllumfl.dr.	1
Compound fluid extract of sar-	
saparillafl.oz.	1 <del>]</del>
Compound tincture of carda-	
momfl.dr.	2
Glycerinfl.oz.	2
Waterenough to make fl.oz.	16

Dissolve the two potassium compounds in 8 fluidounces of water by the aid of a gentle heat, add the remaining ingredients, set aside for about 12 hours, and filter.

IV.

Sodium sulphovinateav.oz.	1
Compound syrup of sarsaparilla, fl.cz.	
Fluid extract of dandelion fl.oz.	
Syrup of orangefl.oz.	14
Water, enough to makefl.oz.	

Mix and filter.

V.	
Sodium sulphateav.oz.	1
Waterfl.oz.	4
Waterfl.oz. Fluid extract of dandelion fl.oz.	11
Fluid extract of sennafl.oz.	1
Essence of sarsaparilla (Part	
VI.)fl.dr.	1
Syrupy glucose, enough to make.fl.oz.	10
VI.	
Rochelle saltav.oz.	14
Compound fluid extract of sar-	-
saparilla fl.oz.	11
Fluid extract of dandelionfl.oz.	1į
Glycerinfl.oz.	2
Syrupfl.oz.	2
Spirit of wintergreen fl.dr.	1
Water, enough to makefl.oz.	16
VII.	
Rochelle saltav.oz.	11
Fluid extract of red clover tops.fl.oz.	1
Fluid extract of sarsaparillafl.oz.	14
Fluid extract of dandelionfl oz.	5
Compound syrup of sarsaparilla.fl.oz.	11
Syrup of wild cherryfl.oz.	11
Water, enough to makefl.oz.	16
Mix and filter.	
VIII.	
	A
Fluid extract of cascara sagrada fl.oz. Glycerinfl.oz.	
Syrup of gingerfl.oz.	
Peppermint waterfl.oz.	4
Sodium sulphitefl.dr.	1
•	
Mix. Dose, from $\frac{1}{2}$ to 1 tablespoonf	ul as

Mix. Dose, from  $\frac{1}{2}$  to I tablespoonful as required.

IX.

Stillingiaav.oz.	8
Sarsaparillaav.oz.	8
Burdockav.oz.	8
Blue flagav.oz.	11
Podophyllumav.oz.	1 <u>i</u>
Sennaav.oz.	1 <u>i</u>
Prickly ash barkgr.	
Potassium iodidegr.	480
Diluted alcoholsuffic	ient

Mix the drugs, except the iodide, reduce to coarse powder, extract with diluted alcohol so as to obtain 1 gallon of percolate, and in this dissolve the potassium iodide

Χ.	
Sarsaparillaav.oz.	6
Burdock rootav.oz.	3
Dandelion rootav.oz.	3
Prickly ash barkav.oz.	3
Chamomile, Romanav.oz.	3
Sassafras barkav.oz.	4
Potassium iodideav.oz.	1
Sodium salicylategr. 22	20
Glycerin	21
Alcohol fl.oz.	24
Water, enough to makegal.	1

Grind all the drugs to No. 20 powder. Mix the glycerin and alcohol with 2 quarts of water. Macerate 24 hours and percolate. When the liquid has ceased to drop, pour in hot water until a gallon altogether has been obtained. Add the potassium iodide and sodium salicylate and dissolve. If not sufficiently dark to suit the eye, add 1 fluidounce of caramel.

# XI.

Sodium sulphateav.oz. 1 Waterfl.oz. 2
Fluid extract of burdockfl.oz, 2
Fluid extract of senna fl.oz. 1
Compound syrup of sarsaparilla fl.oz. 8 Syrupy glucose, enough to
makefl.oz. 16
XII.
Stillingiaav.oz. 8
Blue flagav.oz. 2
Senna
Prickly-ash barkav.oz. 2
Coriander seedav.oz. 1
Licoriceav.oz. 3
Sassafras barkav.oz. 4
Yellow dockav.oz. 4
Potassium iodideav.oz. 2
Alcohol,
Waterof each, sufficient

Mix the ground drugs, and moisten with menstruum (3 parts water, 1 part alcohol by

measure); pack in a percolator and allow to XVII. macerate for 48 hours, then percolate to  $2\frac{1}{2}$ pints; in this dissolve first the potassium iodide, and then, by cold percolation. 3 av. pounds of sugar.

#### XIII.

Sarsaparillaav.oz.	61/2
Stillingiaav.oz.	614
Dandelionav.oz.	34
Pipsissewaav.oz.	34
Poke rootav.oz.	31
Sennaav.oz.	34
Licoriceav.oz.	31
Sodium sulphateav.oz.	2
Sugarav.oz.	48
Alcohol,	
Water, enough to makegal.	1

Mix the drugs, except sodium sulphate, reduce to coarse powder, percolate with a mixture of 1 of alcohol to 3 of water, until 100 fluidounces are obtained. In this dissolve the sugar and sodium sulphate.

#### XIV

Sennaav.oz.	20
Sugarav.oz.	20
Fennel seedav.oz.	10
Caraway seedav.oz.	2
Juniper berriesav.oz.	
Celery seedav.oz.	
Couch grass av.oz.	
Sassafras barkav.oz.	4
Rochelle saltav.oz.	8

All should be in coarse powder and should be well mixed. The mixture is a cathartic, alterative and diuretic.

# XV.

Sennaav.oz.	10
Couch grassav.oz.	1
Chicoryav.oz.	1
Juniper woodav.oz.	1
Rest harrow rootav.oz.	
Dandelionav.oz.	
Guaiac woodav.oz.	1

Mix and make into a species.

This preparation is known as "Koeller's Blood-Purifying Tea."-H.

XVI.

Sennaav.oz.	8
Corianderav.oz.	2
Mannaav.oz.	4
Cream of tartargr.	140

Make into a species.

Aloesav.oz	5
Agaricgr	. 240
Gentiangr	. 240
Galangalgr	
Rhubarbgr	
Zedoarygr	
Myrrhgr	
Opiumgr	. 2
Saffrongr	
Cardamomgr	
Cassiagr	
Sugar	
Diluted alcohol	

Macerate the ground drugs with 100 fluidounces of diluted alcohol for 7 days, agitating frequently, then filter, and in the filtrate dissolve the sugar by agitation.

This may be sold as "Blood-Purifying Drops." It resembles "elixir of long life' or "Swedish Bitters."

# Bunion Cures.

The remedies recommended for the relief and cure of corns are usually also recommended for the removal of bunions. While these remedies often do afford relief, the two maladies are almost as distinct as they could possibly be. Corns are inflammations of the skin, whereas bunions are inflammations of the synovial membrane, which connects the great toe with the foot proper. Nothing less than a surgical operation will absolutely and permanently cure bunions.

Relief to bunions is often afforded as stated by the application of corn cures, assisted by frequent bathing in hot water. Frequently anointing with petrolatum, the application of tincture of iodine or of iodine ointment, or the wearing of a rubber protector will prove beneficial. A warm flaxseedmeal poultice at night often cases a great deal.

Dr. Shoemaker, in his admirable work entitled "Heredity, Health and Personal Beauty," recommends the following paint:

Carbolic acid .....fl.dr. 2 Tincture of iodine.....fl.dr. 2 Glycerin ...... fl.dr. 2

To be applied with a camel's hair pencil every day. Copper oleate plaster is also advised by the same authority.

# Burns and Scalds, Applications for.

1. Solution of chloride of iron .....fl.dr. 4 Petrolatum .......av.oz. 4

II.	
Europhen	gr. 50
Olive oil	
Lanolin	
Petrolatum	av.oz. 2
111.	
Salol	av.oz. 1
Olive oil	fl.oz. 6
Lime water	fl.oz. 6

Dissolve the salol in the oil, add the lime water, and agitate well.

IV.

It is also recommended first to wash the burns with saturated solution of boric acid and then to apply absorbent gauze saturated with the following:

I ime waterfl.oz.	8
Linseed oil, rawfl.oz.	8
Thymolgr.	

Dissolve the thymol in the oil, add the water, and agitate thoroughly.

In about 10 days substitute this ointment:

Bismuth subnitrategr. 150 Boric acidgr. 75 Olive oilfl.dr. 5 Lanolin22	
V. Lanolinav.oz. 1 Benzoated lardav.oz. 2 Lime waterfl.oz. 3	
VI. Menthol	

Mix well.

VII. Some of the preparations under the heading "Ointments or Salves," may also be utilized.

#### Catarrh and Cold in the Head, Remedies for.

Catarrh (or coryza) manifests itself in two general forms, one being acute, which is usually known as "cold-in-the-head;" the other, the chronic form, which is known by the popular designation "catarrh." Both forms may be treated in the same, or, at least, in a similar, manner.

The remedies for catarrh are multiform. Mix and Some are snuffs, others are to be used by as a snuff.

inhalation; some by spraying, others by insufflation or by injection with syringe or a douche. Others again are in the form of an ointment, which is to be applied to the interior of the nostrils, then to be drawn up; and finally others again are to be taken internally, the latter containing tonics combined with some agent which diffuses itself through the system and thus attacks the local manifestations of the disease.

The snuffs contain various agents, the most conspicuous being cocaine, the indiscriminate or careless use of which cannot be too severely condemned. Purchasers of such snuffs should invariably be warned that the cocaine habit is, of all forms, probably the most deadly, and that great danger, attends its use in catarrh snuffs. It should never be recommended in cases of chronic catarrh where its use would be liable to prove continuous.

The catarrh remedies used by inhalation contain either menthol or iodine combined with carbolic acid. Those used by spraying (with nasal atomizers) contain liquid petrolatum, having in solution menthol, thymol and various antiseptic volatile oils. The catarrh ointments contain ingredients similar to those of the preceding. They are usually made with thymol, menthol, or some oil, together with boric acid or bismuth salt and petrolatum.

The combinations for insu.flation contain potassium iodide, or other iodide, salt, potassium chloride, golden seal, carbolic acid. camphor, etc.

Good titles for catarrh reinedies are "catarrh remedy," "catarrh snuff," "cream balm," "catarrh balm," "catarrhine," "catarrh cure," "menthol snuff," "mentholin," etc.

Boric acid Iodoform Bismuth subnitrate Elm bark	 •	:	•	•	•	 	•	.gr. .gr.	60 60
	_								

Mix and use as a snuff.

I.

II.	
Menthol	gr. 5
	av.oz. 1

Mix and reduce to very fine powder. Use s a snuff.

· · · · · · · · · · · · · · · · · · ·	
III. Sodium salicylategr. 75 Boric acid, fine powderav.oz. 1 Cocaine hydrochlorategr. 20	X. Cocaine hydrochlorategr. 10 Oil of eucalyptusgr. 3 Iodoformgr. 60 Sugar of milkgr. 480
Use like the preceding.	1
IV. Cocaine hydrochlorategr. 2 Bismuth subnitrategr. 90 Quinine bisulphategr. 6 Orris rootgr. 30	XI. Boric acid, powderav.oz. 1 Sugar, powderedav.oz. 4 Mentholgr. 30 XII.
All should be in fine powder and should	Betolgr. 150
be well mixed.	Menthol
<b>v.</b> .	Cocaine
Boric acidgr. 10 Orris rootgr. 25	Mix and reduce to very fine powder.
Orris rootgr. 25 Roasted coffee gr. 150	XIII.
Sugar         gr. 50           Milk sugar         gr. 250           Menthol         gr. 15	Bismuth salicylategr. 360 Camphorgr. 30 Cocaine hydrochlorategr. 1
Mix the first five ingredients and reduce to	Mix.
an impalpable powder, then incorporate	XIV. Other catarrh snuffs are mentioned
thoroughly with the menthol. VI.	in Part I.
Sodium bicarbonate	XV. Eucalyptolfl.dr. 2 Terebenefl.di. 2 Mentholgr. 16
Mix and reduce to impalpable powder.	Liquid petrolatumfl.oz. 15
VIa. gr. 120 White hellebore, powdergr. 120 Orris root, powdergr. 60 Rice powderav.oz. 134 Oil of lavenderdrop 1 Oil of cassiadrop 1 Oil of lemondrop 1	XVI. Oil of eucalyptusdrops 8 Thymolgr. 8 Mentholgr. 4 Oil of wintergreendrops 4 Liquid petrolatumfl.oz. 16 The last two chemeses to be well in
Reduce the drug to fine powder and mix	The last two above are to be used in a
with the oils.	nasal atomizer.
VII.	XVII.
Sugar	Borfe acidgr. 5 Zinc sulphategr. 1 Distilled waterfl.oz. 1
Oil of peppermintdrops 4	To be used like the preceding.
Reduce the sugar, borax and salt to fine	XVIII.
powder and add the oil.	Oil of eucalyptusdrops 20
VIII.	Carbolic aciddrops 2 Liquid petrolatum
Bismuth subnitrate	Useful in all stages of nasal catarrh, in- cluding the grip. To be used by spraying. XIX.
Take a pinch 5 or 6 times daily.	Carbolic acid, liquefiedfl.dr. 7
IX.	Oil of turpentinefl.dr. 3
Tannic acid	Alcoholfl.dr. 15 Ammonia waterfl.dr. 8
Sugar	This solution is dropped upon absorbent
mix and reduce to an impalpable powder.	cotton which should be kept in a tightly

stoppered bottle, when not in use. The vapor is to be inhaled frequently. The vapors are also recommended for diphtheria.

The above is the well-known and largely used "olfactorium anticatarrhoicum" of Hager.

XX.

Compound tincture of iodinem.	30
Carbolic acid, crystalgr.	10
Glycerinfl.dr.	5
Water, enough to makefl.oz.	

Mix the glycerin with the acid liquefied at a gentle heat, add the tincture and the water and expose the mixture to sunlight until it has become colorless.

This is the "Carbolized Solution of Iodine" of the N. F. and is used by inhalation.

XXI. Menthol is an excellent agent for treatment of catarrh by inhalation. It is commonly put up in vessels more or less resembling tubes, which may be opened at both ends to permit free circulation of air through the tube when in use, and which may be closed tightly when not in use.

### XXII.

Boric acid, powdergr.	120
Mentholgr.	60
Thymolgr.	24
Eucalyptoldrops	16
Bismuth subcarbonategr.	120
Cold creamgr.	360
Petrolatumgr.	300

Dissolve the menthol and thymol in the petrolatum, which has been melted by the application of a gentle heat, allow the solution to solidify, add the other ingredients and make to an intimate mixture.

This mixture is to be applied into the nostrils several times daily.

#### XXIII.

Thymol	3
Oil of wintergreendrops	
Bismuth subcarbonategr.	
Petrolatumav.oz.	1

Prepare and use like the preceding.

### XXIV.

	gr. 1 to	
Petrolatum	av.oz.	Ĩ%
-		

Prepare and use like the preceding.

XXV.

Boric acid	gr. 60
Borax	gr. 60
Sodium chloride	
Lister's antiseptic solution	fl.oz. 2
Water	fl.oz. 6

This may be used by insufflation, but preferably by means of a douche.

#### XXVI.

Borax	120
Sodium bicarbonategr.	
Carbolic acid fl.dr.	1/2
Carbolic acidfl.dr. Glycerinfl.oz.	1
Water, enough to makefl.oz.	16

This is to be used like the preceding.

XXVII.

Sodium chloridegr.	240
Potassium chlorategr.	100
Ammonium iodidegr.	4
Carbolic aciddrops	16
Camphor, powdergr.	16
Golden seal, powdergr.	40
NC: 11	

Mix well.

This is to be treated with water to make an infusion, which latter is then to be used by insufflation or injection.

### XXVIII.

Potassium iodide......gr. 60 Compound tincture of cardamom fl.oz. 4 Compound tincture of gentian..fl.oz. 12

#### Cathartics.

The class of remedial substances most commonly in demand partake of the form of cathartics. In offering a preparation of this kind for sale, it is customary, as well as advisable, to recommend it for chronic constipation or as a liver invigorator, a blood purifier, a remedy against biliousness or headache, an anti-dyspeptic, etc.

This class of pharmacal remedies may take the form of an elixir, syrup, infusion, tincture, pastille or troche, effervescent salt, pill, confection, powder or species.

Ι.	
Buckthorn bark	.av.oz. 8
Licorice root	.av.oz. 4
Butternut bark	av. oz. 4
Fennel	.av.uz. 2
Caraway	.av.oz. 2
Ginger	.av.oz. 2
Fluid extract of senna	.fl.oz. 8
Water	sufficient

Mix the drug, reduce to coarse powder, introduce into a vessel containing 64 fluidounces of boiling water, continue boiling for 15 minutes, strain and express, adding enough water to make up the measure of 64 fluidounces. Allow this to stand a few hours, decant 56 fluidounces of clear liquid, add the fluid extract and flavor the whole, if thought advisable, by the addition of oil of anise, orange or peppermint.

II.

Senna
Licorice rootav.oz. 5
Buckthornav.oz. 5
Anise
Fennel
Carawayav.oz. 1/2
Ginger
Rochelle saltav.oz. 3
Alcohol,
Water of each, sufficient
Oil of wintergreendrops 8
Oil of sassafrasdrops 8

Reduce the drugs to moderately fine powder and percolate with diluted alcohol until 48 fluidounces are obtained. Then dissolve the Rochelle salts in 16 fluidounces of water, add this to the percolate and flavor the whole with the oils.

III. Compound cathartic elixir or compound elixir of cascara sagrada may be sold or dispensed if desired.

IV.

•	••	
	Fluid extract of cascara sagrada (tasteless)fl.oz.	1 1/2
	Fluid extract of berberis aquifo-	
	lium	3
•	Senna, coarse powderfl.dr.	6
	Prunesav.oz.	
	Figsav.oz.	2
	Oil of fennel drops	10
	Oil of cinnamondrops	10
	Oil of clovesdrops	
	Sugarav.oz.	3
	Water, enough to makefl.oz.	16

Chop the figs and prunes, without stones, to a fine hash, mix with senna and steep in 12 fluidounces of water for 3 hours, and strain through a No. 4 wire sieve. To this liquid add the sugar, dissolve by agitation, add the fluid extracts and oils, and make up to one pint with hot water, which has been poured over the fruit on sieve.

Four fluidrams of fluid extract of licorice or 180 grains of powdered nutmegs may be substituted for the oils as a flavor.

v.

Bitterless fluid extract of cascara fl.oz.	2
Fluid extract of rhubarbfl.oz.	1
Fluid extract of sennafl.oz.	1
Oil of fenneldrops	5
Oil of carawaydrops	5
Potassium carbonategr.	
Saccharingr.	
Simple syrup, enough to make .fl.oz.	16

Add the potassium carbonate to the fluid extract of rhubarb and dissolve, then add the other fluid extracts, the oils and saccharin, and finally the syrup.

VI.

Extract of senna, deresinified.av.oz.	4
Pulp of purging cassiaav.oz.	
Pulp of tamarinds av.oz.	
Extract of licoricegr.	180
Resin of scammonygr.	
Tartaric acidgr.	
Sugar	5

Make into oval lozenges of 80 grains each. These may be dusted with powdered sugar or they may be dipped in melted chocolate and afterwards covered with a coating of granulated sugar.

VII. Wash some dried prunes (a pound, for instance), place them in a saucepan over a dull fire or on a sand-bath, with just sufficient water to nearly cover them; when they have boiled long enough to become quite soft, and the greater part of the water has been evaporated, allow them to cool, and rub them in a large mortar so as to crush the fruit, but not the kernels. Transfer them to a coarse straining cloth and squeeze the pulp through it. This should be about the consistence of honey in the water. If not, it can be made so by evaporating it over a water bath. Now make a mixture of:

Senna, powder	.av.oz.	4
Sugar, powder	.av.oz.	4
Jalap, powder	.av.oz.	14
Gum arabic, powder	. av. oz.	×
Aromatic powder	.av.oz.	¥

Add sufficient quantity of the prune paste to make a mass and divide into troches of convenient size.

VIII. Confection of senna of figs, and of prunes in Part I, may be sold or dispensed either as they are in paste form or they may be molded into pastilles like the preceding.

	1.	
T	~	•

Jalap, powderav.oz Bitartrate of potassiumav.oz	z. 2
Sugar, powderedav.or	z. 12
Oil of orangefl.d	r. 2

Mix. Dose, 1 to 2 teaspoonfuls.

### X.

Senna, powder	av.oz.	2
Sulphur	av.oz.	2
Fennel, powder	av.oz	. 1
Aniseed, powder	av.oz.	1
Cream of tartar		
Licorice root, powder	av.oz.	8
Sugar, powder		

This is very similar to compound licorice powder.

XI. Formulas for cathartic pills might be given by the score. The compound cathartic or vegetable cathartic pills may be supplied as cathartic pills. Other formulas which may be used are the following:

Aloingr.	10
Podophyllingr.	10
Capsicumgr.	10
Extract of nux vomicagr.	20
Extract of new volunea	~

Make 100 pills.

Aloin	,
Jalap	r.
Extract of henbanegr. 5	
Extract of nux vomicagr. 5	
Oleoresin of capsicumgr. 5	
Podophyllin	
Nr. 1. 100 - 111-	

Make 100 pills.

These latter two form very small pills and may be called "Little Liver Granules," "Little Cathartic Pills," or some similar name.

XII. Laxative species, Part I., may be dispensed when a cathartic tea is demanded. The next two formulas may also be utilized:

### XIII.

Senna, cut					
Manna					
Coriander .	••	•••	•••••	av.oz.	1

XIV.

Senna	8
Couch grass, cutav.oz.	8
Fennel, bruisedgr.	160
Elder flowergr.	160

Mix well. This may be sold as "German Herb Tea," or "Cathartic Tea."

### XV.

Buckthorn bark, cutav.oz.	10
Dandelion, cut	10
Senna, cutav.oz.	10
Licorice root, cutav.oz.	
Coriander, bruisedgr.	300
Anise, bruisedgr.	

XVI. The following may be dispensed as "Grape Salt" or "Fruit Salt" or "Fruit Saline:"

Sodium bicarbonateav.oz.	6
Tartaric acidav.oz.	2
Cream of tartarav.oz. 1	10
Rochelle saltav.oz.	4
Sugar	1
Oil of lemonm. 4	10
Oil of orangem. 2	20

XVII. Artificial Carlsbad salt (Part IV) or the same salt in effervescent form may be dispensed for cathartic purposes; also the effervescent magnesium citrate (Part I) may be used for the same purpose.

XVIII. Among other preparations that may be recommended for cathartic purposes are some of the liver remedies, blood purifiers and bitters.

### Chilblain Cures.

Pharmacists are often called upon for some simple remedy for the relief of the annoying affection known as chilblains. The formulas which follow may be recommended for their relief and cure.

#### I.

Creosotedrops	12
Goulard's extractdrops	12
Extract of opiumgr.	11/2
Pine targr.	
Lardav.oz.	

#### II.

Zinc oxide	60
Camphor, powdergr.	
Myrrh, powdergr.	
Opium powdergr.	30
Lardgr.	

Dissolve the camphor in the lard, which has been melted at a gentle heat, allow this to cool, add the other ingredients, and mix well.

### П.

Opium, powderedgr.	
Camphorgr.	
Nutgall ointmentav.oz.	1

Oil of eucalyptusfl.dr.	2
Camphorgr.	110
Carbolic acidfl.dr.	1
Yellow waxav.oz.	31/2
Petrolatumav.oz.	3

Melt the wax and add the petrolatum; when nearly cold, add the other ingredients previously well mixed.

Zinc so	ziodol	gr.	48
Simple	cerate or	petrolatumav.oz.	1

#### VI.

Beef marrowgr.	300
Marshmallow ointmentav.oz.	24
Venice turpentinegr.	150
Hydrochloric acidfl.dr.	21/2
Camphorgr.	90
Extract of opiumgr.	50

Melt the fats together and dissolve the camphor in the fluid, soften the extract of opium with a few drops of water in a mortar, and rub up with about one-half ounce of the fats, then add more of the fats, so as to have the extract equally distributed; mix with the remainder, and incorporate the hydrochloric acid by constant stirring, as in making cold cream.

#### VII.

Oil of rosemarydrop	s 15
Camphorgr	
Oil of turpentinefl.oz	. 1
Lardav. oz	. 41/2

#### VIII.

Citrin ointmentgr.	480
Camphor gr.	
Oil of turpentinefl.dr.	
Olive oilfl dr.	4

To be applied with gentle friction before the chilblains break.

#### IX.

Ammonium chloridegr.	30
Waterfl.oz.	4
Hydrochloric acidfl.dr.	
Alcoholfl.oz.	11/2

Apply morning and evening.

#### X.

Zinc oxidegr. 1	240
Tannic acidgr.	120
Camphorav.oz.	
Peru balsamfl.oz.	2
Glycerinfl.oz.	24

XI.
Carbolic aciddrops 15
Camphor
Eucalyptus oilfl.dr. 1
Alcohol, enough to make fl.oz. 4
XII.
Resorcingr. 35
Ichthyolgr. 35
Tanningr. 85
Water fl.oz. 3
To be painted on at night.
XIII.
Carbolic acidgr. 6
Liniment of aconitefl.dr. 2
Liniment of belladonnafl.dr. 2
Collodion, flexible fl.oz. 1

To be painted on once or twice daily.

### XIV.

I.

Solution of lead subacetate fl.dr.	3
Camphorgr.	
Oil of turpentinefl.oz.	1

XV. Other suitable preparations may be found under the head of "Ointments or Salves," and "Liniments," Part II.

#### Cholera Remedies.

See Diarrhoea and Dysentery Remedies.

#### Corn Eradicators.

Remedies for the removal of corns are very numerous and assume divers forms. One of the most common and most popular is a preparation of collodion containing extract of cannabis indica and salicylic acid, sometimes also lactic or acetic acid. Another popular preparation is an ointment or cerate containing about 10 per cent of salicylic acid. These are usually to be applied for 4 or 5 nights consecutively, followed by a hot foot bath, when the corn can be picked out. If this first treatment does not produce satisfactory results, it should be repeated. Better results are obtained if a hot foot bath be taken, also, before application of the remedy, then scraping or cutting off the calloused tissue as far as possible.

Salicylic acidgr.	480
Extract of indian hemp (Squibb's) gr.	90
Alcoholfl.dr.	
Flexible collodion suffic	ient

Dissolve the extract in the alcohol, and the salicylic acid in about 5 av.ounces of flexible

collodion contained in a tared bottle. Then add the former solution to the latter, and finally add enough flexible collodion to make 10 av.ounces .- N. F.

#### II.

Mix and dissolve. Apply like the preceding.

#### III.

Extract of cannabis		
(Squibb's)	gr.	30
Salicylic acid	gr.	300
Oil of turpentine		
Collodion		
Acetic acid, glacial	fl.dr.	1

Mix the first three ingredients intimately, add the collodion, dissolve, and then add the acetic acid.

#### IV.

Salicylic acidav.c Simple cerateav.c	oz. 1/2 oz. 4/2
V.	
Yellow waxav.c	oz. 6
Venice turpentineav.	
Resinav.	oz. 1/2
Salicylic acidav.c	
Peru balsamav.c	
Petrolatumav.c	07. 1

Melt the resin and wax and add the other ingredients; stir until cold.

#### VI.

Potassium carbonate	av.oz. 1
Simple cerate	
Verdigrisenough	to color sufficiently

To be applied on a cloth.

#### VII.

Lead plasterav.oz. 3	
Resinav.oz. 2	
Verdigrisav.oz. 1	
Male townshop and enroad upon leather	

#### VIII.

Resinav.oz	
Yellow waxav.oz.	3
Gum turpentineav.oz.	1
Elemiav.oz.	1
Beef tallowav.oz.	1
Wood charcoal, very fine pow-	
derav.oz.	1
Monochloracetic acidgr.	108
Glycerin fl.dr.	11

with the first mixture, when the latter begins to cool, and stir frequently until cool.

This plaster may be formed into pills which, when used, may be warmed in the hand and then spread out flat on a piece of silk; the latter then to be applied to the corn.-D.

If this plaster be warmed and spread on cloths, the latter may be sold as "Spread Corn Plaster."

#### IX.

Soap plaster ......av.oz. 6 Salicylic acid ...... av.oz. 1/2

Melt the plaster, add the salicylic acid, and stir frequently until cool. This may be spread upon cloth like the preceding.

X. The remedies previously mentioned will prove of more benefit to " hard " corns then to "soft" corns. It has been recommended to treat the latter by painting with a solution of silver nitrate in 8 parts of distilled water every fourth or fifth day, in the meantime keeping the toes apart by means of a pledget of cotton smeared with petrolatum, zinc ointment or other bland fatty substance.

The cure or removal of corns is facilitated by frequent washing of the feet, followed by removal of all dead tissue.

Lately dry tannin placed between the toes where the corn is located is recommended as a cure for " soft " corns.

#### Cough and Cold Remedies.

Suggested titles for these remedies are "Cough Remedy," "Cough Mixture," "Cough Syrup," "Syrup of Tar and Wild Cherry," " Children's Cough Cure " (if intended for children exclusively), "White Pine Syrup," " Honey of Hoarhound and Tar," " Tar, Tolu and Wild Cherry," " Tar Hoarhound Cough Syrup," "Lung Balsam," " Expectorant," " Cough Cordial," "Cough Balsam," etc.

Opium in some form or a salt of morphine are constituents of almost every cough mixture. This should not be administered to small children or infants and hence it may be Melt the first five ingredients, also mix the advisable to have two preparations, one withother ingredients, and incorporate thoroughly out morphine or opium; this to be entitled

"Children's Cough Cure," or "Infant	VIII.
Cough Mixture," and the other with mor-	Hoarhoundgr. 120 Irish moss av.oz. 1½
phine or opium.	Ammonium chloride
Other remedies are noticed under the head	Water, boiling fl.oz. 64
of Remedies for Throat Affections.	Oil of tarfl.dr. 2
L	Chloroformfl.dr. 4
Syrup of tolufl.oz. 4	Fluid extract of sennafl.oz. 2 Compound syrup of squillfl.oz. 16
Syrup of wild cherryfl.oz. 4	
Tincture of henbanefl.oz. 4	Mix the hoarhound, Irish moss and am-
Hoffman's anodynefl.oz. 4 Waterfl.oz. 4	monium chloride, add the water, allow to
	stand for 12 hours, and strain. Dissolve
II. White Pine "Expectorant" is an ex-	the oil of tar in the chloroform, add the fluid
cellent remedy. For formula, see Part I.	extract and compound syrup, and add to the
The morphine may be omitted if desired.	previous mixture
III.	IX.
Extract of licorice, purified av. oz. 1	Syrup of tarfl.oz. 64
Syrupy glucoseav.oz. 10	Syrup of wild cherryfl.oz. 45 Syrup of squillfl.oz. 16
Ammonium chlorideav.oz. 1 Paregoricfl.oz. 1	Fluid extract of lobeliafl.dr. 6
Wine of antimonyfl.dr. 4	Tincture of opiumfl.oz. 4
Spirit of nitrous etherfl.dr. 2	Fluid extract of ipecacfl.dr. 4
Water, enough to makefl.oz. 16	X
Mix. Dose, 1 to 4 teaspoonfuls.	Syrup of tar
This mixture is known as "Improved	Syrup of tolufl.oz. 13 Syrup of wild cherryfl.oz. 50
Brown Mixture."	Syrup of squill
	Syrup of senegafl.oz. 6
IV. Tincture of tolufl.dr. 4	Ammonium chlorideav.oz. 31/2
Paregoricfl.oz. 2	Morphine sulphategr. 15
Syrup of squillfl.oz. 2	Tartar emetic
Honey, enough to make fl.oz. 16	Glycerinfl.oz. 10
Dose. One teaspoonful.	Dissolve the ammonium chloride, mor-
v.	phine salt, and tartar emetic in the water,
Terebene fl.oz. 2	filter the solution, and add the other ingre-
Acacia, powderav.oz. 1	dients.
Sugarav.oz. 6	Either of these last two formulas may be
Yolk of egg 4 Anise water fl.oz. 4	used for the preparation of Syrup of Tar and
Camphor water fl oz. 1	Wild Cherry.
Distilled water, enough to make fl.oz. 16	XI.
Triturate the acacia, sugar, and terebene in	Ammonium chlorideav.oz. 4
a mortar, beat the egg yolk with the flavored	Chloroform fl.oz. 1
waters, make an emulsion by rubbing this	
with the contents of the mortar, and add the	Syrup of licorice, enough to make gal. 1
distilled water. Lemon juice may be sub-	Mix all and dissolve by agitation.
stituted for the distilled water.	XII. See Yerba Santa Cough Mixture, or
	Compound Syrup of Yerba Santa.
VI.	XIII.
Oil of tarfl.dr. 2 Fluid extract of hoarhoundfl.dr. 4	Wild cherry barkgr. 240
Oil of anisedrops 5	Senega
Jamaica rumfl.oz. 8	Ipecac
Honey, enough to makefl.oz. 16	Ginfl.dr. 1
Dose: A half to 1 teaspoonful.	Compound tincture of carda-
VII.	momfl.dr. 1
Fluid extract of hoarhound fl.oz. 6	Water
Syrup of wild cherryfl.oz. 18	Mix the drugs, reduce to coarse powder,
Syrup of tar	extract by percolation with water so as to
•	

•

obtain 8 fluidounces of percolate and to this through clear; add the caramel and sugar, which dissolve with a gentle heat, and strain add the other ingredients. Two teaspoonfuls in water constitute the while warm. usual dose to relieve cough. A syrup of a different and richer appear-This is known as "Dr. Pancoast's Cough ance may be made by mixing equal parts of Mixture." the syrup prepared as above and Syrup of Wild Cherry of the U. S. Pharmacopœia. XIV. The tincture of red spruce gum directed Tincture of capsicum ......fl.oz. 1 for use in the above is best prepared as fol-Syrup of wild cherry.....fl.oz. 2 Mucilage ...... fl.oz. 2 lows: Syrup of tar ..... fl.oz. 3 Red spruce gum, fine powder. . av. oz. 2 Syrup of hydriodic acid .....fl.oz. 4 Alcohol, enough to make ..... fl.oz. 16 Label: A teaspoonful four times daily for Macerate until dissolved and filter. persistent, dry, hacking cough, which resists The above syrup is the formula for what usual treatment. is known as "Spruce Gum Syrup," or "Syr-XV. up of Red Spruce Gum." 2 Raw linseed oil .....fl.oz. XIX. Oil of cassia .....fl.dr. 1/2 1/2 Ammonium chloride.....gr. 180 Oil of wintergreen.....fl.dr. Tartar emetic.....gr. Oil of sassafras .....fl.dr. 1⁄2 Morphine sulphate .....gr. 3 Syrup of licorice .....fl.oz. 4 Glycerin ......fl.oz. 1 In teaspoonful doses. Simple syrup.....fl.oz. 2% This preparation has been known as " Da- · Morphine sulphate .....gr. 9 vis' Cough Mixture." Chloral hydrate ......gr. 240 Diluted hydrocyanic acid .....fl.dr. Water, enough to make .....fl.oz. 16 XX. Syrup of squill.....fl.dr. 2 Make an emulsion in the usual way. Wine of ipecac.....fl.dr. 1 This may be sold as a "flaxseed or linseed Simple syrup ..... fl.dr. 4 cough syrup or balsam." XVI. This preparation has been known as "Dr. Spirit of chloroform ..... drops 20 Child's Cough Mixture." Hydrobromic acid.....drops 30 XXI. Water, enough to make ......fl.oz. 1 Tincture of tolu.....fl.oz. 4 Fluid extract of lobelia.....fl.oz. 2 To be given in 1 dose for an adult: Mix. 2 Fluid extract of cannabis indica.fl.oz. for children, the quantity to be reduced ac-Chloroform .....fl.oz. 1 cording to age. Morphine sulphate .....gr. 32 Tartar emetic......gr. 32 This is known commonly as "Fothergill's Spirit of peppermint .....fl.dr. 11/2 Hydrobromic Acid Cough Mixture." Simple syrup.....gal. XVII. See also Emulsion of Linseed Oil, Dissolve the morphine and tartar emetic Part I., which may be employed. in a little water; mix the two fluid extracts, tincture, chloroform and spirit, shake well, XVIII. 🖌 add a portion of the syrup, shake again, add Tincture of red spruce gum...fl.oz. 2 the remainder of the syrup and then the solu-26 Sugar.....av.oz. tion previously prepared. Water ..... fl.oz. 16 Caramel ......fl.dr. 1 or gr. 60 This makes a turbid preparation such as is Fuiler's earth.....gr. 120 commonly sold as "Chlorodyne Cough Mix 2 ounces of the sugar with the tinc-Cure." ture of spruce and fuller's earth, rub well XXII. If a lozenge is desired, the Troches and add the water in divided portions; then of Glycvrrhiza and Opium of the U.S.P.

filter, returning the filtrate until it comes will form a very satisfactory article. Or the

lozenges mentioned under the heading         "Remedies for Throat Affections" may be employed.         Cough (Whooping) Remedies.         I.         Ammonium picrategr. 1         Ammonium chloridegr. 24         Purified extract of licoricegr. 60         Waterfl.oz. 3         Dose: A teaspoonful for children up to 2         years of age and 2 teaspoonfuls for children 3 to 5 years of age.         II.         Etherfl.oz. 6         Chloroformfl.oz. 1         Hold to the mouth on cloth or sponge, and allow the child to inhale the vapor.         III.         Creosote, pure	latter also serving as carminatives. Capsi cum is introduced with the view of utilizing its stimulant properties. Opium should be introduced with some misgivings, for, as a rule, these "cordials" or "balsams" an given to children. In fact, it may be advis able to have two preparations, one containing opium and intended for older children and adults, the other, without opium, for infant and younger children. I. Compound Elixir of Blackberry, Part I II. Aromatic Syrup of Blackberry, Part I III. Compound Elixir of Dewberry. See Part I. IV. Fluid extract of blackberry root fl.oz. 2 Tincture of vanillafl.dr. 4 Compound elixir of taraxacum. fl.oz. 16 V. Fluid extract of blackberry root fl.oz. 2 Simple elixir, enough tc make fl.oz. 7 Compound elixir of taraxacum fl.oz. 7 VI. Fluid extract of blackberry root fl.oz. 2 Simple elixir
Ether	
	Sodium bicarbonateav.oz. 8 Alcoholfl.oz. 64
Diarrhœa and Dysentery Remedies.	Simple syrup, enough to makegal. 1
These preparations may be put under the titles "Blackberry Balsam," "Blackberry Cordial," "Blackberry Elixir," "Diarrhœa Cordial," "Diarrhœa Remedy," "Diarrhœa and Cholera Cure," etc. The ingredients of these preparations num- ber among the following: Blackberry root	Dissolve the camphor and oil in the alco hol, and add the chloroform and two tinctures Mix the fluid extract, sodium bicarbonate and a portion of the syrup, let stand in an open vessel for several hours, then add to the previous mixture, add the remainder of the
bark, blackberry juice, rhubarb, nutgall,	oftep, and miter in a new constant ranner
witch hazel, catechu, kino, peppermint, opi- um, capsicum, ginger, aromatics and syrups. The blackberry juice and syrup are intro- duced for the purpose of disguising the	Aromatic syrup of rhubarbfl.oz. 8 Fluid extract of hamamelisfl.oz. 3 Tincture of opiumfl.oz. 2
styptic taste of the blackberry root bark,	A teaspoonful every 2, 3, or 4 hours;

[X.	
Ripe blackberries	1
Blackberry rootgr.	480
Mace	60
Clovesgr.	60
Allspicegr.	60
Cassiagr.	60
Gingergr.	60
Port wine	4
Alcohol	2
Water	ient

Express the juice from the berries and add sufficient water through the residue to make the liquid measure 12 fluidounces; add the wine and alcohol. Mix the drugs and grind to tolerably fine powder, moisten with the liquid before mentioned, pack lightly in a percolator, soak with menstruum, macerate for 24 hours, and then percolate, passing the remainder of the liquid through the drug. If the percolate is less than 16 fluidounces, add enough menstruum consisting of alcohol and water in the proportion of 1 of the former to 4 of the latter to make up this amount. Known as "Blackberry Cordial." X.

Fluid extract of ipecac	fl.dr.	6
Tincture of opium	fl.oz.	3
Aromatic tincture of rhubarb.		
Simple syrup		
Alcohol		
Fluid extract of logwood	fl.dr.	12
Fluid extract of blackberry root	fl.dr.	12

Dose: A teaspoonful every 8 hours.

#### XI.

Fluid extract of blackberry root fl.oz.	82
Fluid extract of gingerfl.oz.	10
Compound tincture of catechufl.oz.	48
Paregoricfl.oz.	15
Simple syrup, enough to makegal.	

#### XII.

Fluid extract of blackberry root fl.oz.	4
Tincture of opiumfl.oz.	
Tincture of gingerfl.oz.	4
Tincture of catechufl.oz.	4
Tincture of kinofl.oz.	4
Tincture of capsicumfl.oz.	1
Sugarav.oz.	
Alcohol fl.oz.	86
Water, enough to makegal.	1

Mix all and dissolve the sugar by agitation or percolation.

XIII. Some of the preparations in Part I, known as "Cholera Mixtures," might be utilized.

XV.

Tincture of opium, deodorized...fl.dr. 2 Diluted sulphuric acid .....fl.dr. 2 Tincture of cardamom comp .... fl.oz. 11/2 Camphor water, enough to make fl.oz. 6

Directions: A tablespoonful, undiluted, every 3 hours until relieved.

XVI.

Tincture of opium, deodorized ... fl.dr. 4 Tincture chloride of iron ..... fl.dr. 4

Mix; 10 to 15 drops in some water, after each movement of the bowels.

These are useful for acute and chronic dysentery.

### Dyspepsia Remedies.

Owing to the prevalence of dyspepsia, remedies for this complaint are in considerable demand. Most of the "bitters" and the liver remedies, and many of the blood purifiers are usually recommended for dyspepsia.

The remedies recommended especially for dyspepsia contain some stomachic tonic like golden seal, columbo, gentian, bitter orange, etc., combined with a laxative like aloes, sodium phosphate, rhubarb, etc.; sometimes an alkali like sodium bicarbonate, as well as a carminative or stimulant like peppermint, capsicum, elixir, etc.

I.	
Fluid extract of rhubarbfl.dr.	5
Fluid extract of columbofl.dr.	5
Fluid extract of chamomilefl.dr.	5
Fluid extract of bitter orangefl.dr.	10
Fluid extract of life everlasting.fl.oz.	5
Sodium phosphateav.oz.	2
Water, hotfl.oz.	
Simple elixir, enough to make. fl.oz.	64

Mix the fluid extracts with a portion of the elixir, dissolve the sodium salt in the water, add to the previous mixture, then incorporate the remainder of the elixir, and filter.

II.	
Rhubarbav.oz.	3
Golden sealav.oz	¥
Cape aloesgr.	60
Peppermint herbav.oz.	3
Potassium carbonateav.oz.	1
Capsicumgr.	15
Sugarav.oz.	24
Alcohol,	
Waterof each, sufficient	ent

Mix the rhubarb, golden seal, aloes, peppermint and capsicum, reduce to coarse pow-XIV. See also the Liniments in Part II. der, extract by percolation with a mixture of 3 volumes of alcohol and 10 of water, so as peppermint, or soda and pepsin are recomto obtain 50 fluidounces of percolate, having mended for dyspepsia. first dissolved the potassium carbonate in the water. In the percolate dissolve the sugar, peared on the market. Something very simeither by agitation or percolation, and then ilar may be prepared according to this add enough more of the menstruum to make formula: 64 fluidounces.

III.

Sodium bicarbonate	. av. oz.	1
Sodium sulphate	.av.oz.	2
Tincture of gentian compound	fl.oz.	4
Fluid extract of senna	fl.dr.	2
Fluid extract of rhubarb	fl.dr.	4
Oil of caraway	. drops	20
Water, sufficient to make		

Dissolve the sodium sulphate and bicarbonate in the water, add the oil of caraway to the tincture and fluid extracts and mix together. Dose: A tablespoonful after meals and at bedtime, in some water.

IV.

Compound tincture of gentianfl.oz. 1	
Tincture of columbofl.dr. 4	
Tincture of nux vomicafl.dr.	1/2
Nitromuriatic acidfl.dr. 2	-
Simple syrup, enough to makefl.oz. 4	

A teaspoonful 3 times daily.

V.

Carbolic aciddrops	18
Tincture nux vomicafl.dr.	11/2
Nitrohydrochloric acid, diluted.fl.dr.	
Pepsin elixirfl.oz.	9
Brandyfl.oz.	6

Direction: A teaspoonful 3 times a day before meals. This is used in fermentative dyspepsia.

VI.

Cocaine hydrochlorategr.	12
Hydrochloric acid, dilutedfl.dr.	1
Elixir of Garus or aromatic	
elixir	121%
Waterfl.oz.	212

Dose: One tablespoonful after eating, for dyspepsia complicated with gastralgia.

This is known as "Huchard's Elixir."

VII. Infusion of rhubarb.....fl.oz. 141/2 Resorcin ......gr. 120 Sodium bicarbonate......gr. 320 Peppermint water .....fl.oz.

A tablespoonful every hour. Useful for catarrh of the stomach.

VIII. Sometimes elixir of pepsin or compound powder of pepsin or tablets, soda and hot.

IX. Recently dyspepsia tablets have ap-

Sodium bicarbonate		••	.gr.	5
Resin of jalap		•••	. gr.	1
Extract of hydrastis, powder.			.gr.	3
Menthol	•••	• • •	.gr.	18

Make 1 tablet. Pepsin may be added if desired, but it will not serve any purpose whatever in the mixture.

One, 2 or 3 of the tablets may be taken after each meal.

This mixture may conveniently be compressed by one of the hand compressors now so readily obtained.

### Ear Medicines.

Medicines for the ear are of two kinds, one for earache, which may be called "Earache Drops," "Earache Remedies," or "Earache Oils," the other being intended for the improvement of the hearing, the latter kind being known as "Ear Oils" or "Acoustic Oils." Of course no medicine will actually improve the hearing when impaired, unless it be due to a waxy concretion present, which may be softened and dissolved.

I. Earache Remedies:

Α.
Olive oilfl.dr. 4 Chloroformfl.dr. 4
В.
Camphor-chloral
Three drops of this mixture on absorbent cotton to be placed in the ear twice a day, some also being rubbed behind the ear.
II. Acoustic Oils:
А.
Oil of turpentinefl.oz. 1 Oil of sweet almondsfl.oz. 6
One to 2 drops on cotton in the ear.
В.
Garlic, freshav.oz.

Boil together 15 minutes and filter while

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Olive oil	fl.dr.	2
Oil of cajeput	.fl.dr.	2
Oil of sassafras	.fl.dr.	2
Oil of rosemary	.fl.dr.	2
Camphor	gr.	120
Mix and dissolve.		

While all of the above will soften ear wax, the following is also employed for this purpose:

Boric acid	gr. 15
Glycerin	fl.dr. 4
Water	fl.dr. 4

Mix and dissolve by the aid of heat. Warm 5 or 10 drops and put into the ear twice daily.

# Eczema or Salt Bheum, Remedies for.

Eczema is one of the numerous class of parasitic skin diseases like itch, ringworm, barber's itch, etc., and the treatment is consequently very similar.

#### I.

Rice powdergr.	240
Talcumgr.	
Zinc oleategr.	60
Bismuth subnitrategr.	30

This should be dusted freely on the surface, and repeated every 2 or 3 hours. Sometimes, on account of the intense pruritus or itching, it is necessary to apply a cooling application; a solution of thymol, 1 to 1,000, is very good. Salicylic acid and menthol are also useful.

#### 11.

Diluted alcohol	. fl. oz.	6
Glycerin	.fl.dr.	6
Cologne	.fl.dr.	6
Tincture benzoin	.fl.dr.	3
Salicylic acid	gr.	60
Menthol	ğr.	60

After applying this, the above powder should be dusted on freely. Continue the cooling treatment (thymol) as long as the active stage continues, and then use a mild ointment containing substances that influence the inflammation, such as the next formula.

Apply twice a day.	Used in mild stage.
Carbolic acid	drops 15
Ichthyoi	
Bismuth subnitrate	gr. 75
	av.oz. 🧏
Petrolatum	av.oz. 1
Cold cream	av.oz. 1
11.	

T	٧,		
L	٧	٠	

Zinc oxide	.av.oz. 4
Chalk, powder	.av.oz. 2
Lead water	
Linseed oil	fl.oz. 2

Mix the chalk and zinc oxide; emulsify the lead water and linseed oil by shaking togeth-

er. Finally mix the powders with the emulsion, rubbing constantly until a smooth paste is obtained.

v.	
Zinc oxide	
Sulphur, powder	av.oz. 2
Chalk, precipitated	av.oz. 2
Linseed oil	fl.oz. 2
Lime water	fl.oz. 2

Mix the powders together, emulsify the oil and lime water by shaking together, and finally incorporate the mixtures by rubbing until homogeneous.

### VI.

Zinc oxidegr.	15
Talcum powdergr.	300
Targr.	300
Petrolatumgr.	800

Make into an ointment, and apply to the part morning and night.

VII.

Tar ointmentgr. Cold creamav.oz.	
Zinc oxidegr.	
Spread on lint and apply.	

VIII. Lassar's paste. See Part I.

IX. For other remedies, see under headings "Remedies for Barber's Itch," "Remedies for Itch," and "Ointments or Salves."

### Eye, Remedies for Diseases of the.

The public demand for preparations for the eye is not large, but it is quite steady, and the formulas here given will suffice for the ordinary affections. If the condition of the eye seems at all serious or is long continued, the patient should invariably be advised to consult a physician who makes a specialty of ophthalmology.

The remedies for the eye may be either lotions or ointments. Suitable names are the following: "Reliable Eye Salve (or Water)," "White Eye Salve (or Water)," "Standard Eye Salve (or Water)," "Imperial Eye Salve (or Water)," etc.

I.	IX. See also Calamine Ointment and Ca.
Zinc sulphategr. 20	amine Cerate, Part I.
Morphine sulphategr. 20 Rose waterfl.oz. 4	Feet, Remedies for Perspiration an
Distilled waterfl.oz. 4	Fetor of the.
Mix, dissolve and filter.	Perspiration and fetor of the feet is a tol-
II.	erably common complaint, but does not ap-
Boric acid, C. P gr. 80	pear to the public to be of sufficient impor-
Zinc sulphategr. 8 Morphine sulphategr. 8	tance to make it necessary to consult a
Glycerinfl. oz. 1	physician. Most remedies recommended by
Rose water fl.oz. 7	pharmacists are in powder, by reason of the
Mix, dissolve and filter.	majority of them containing talcum with
III.	salicylic acid. These powders should always
Mercuric chloridegr. 2 Ammonium chloridegr. 12	be exceedingly fine, as otherwise they will
Cochineal	prove irritating to the already sensitive in-
Alcohol fl.dr. 2	tegument.
Water, enough to makefl.oz. 16	I.
Mix, and filter after 12 hours.	Salicylic acidgr. 105 Boric acid, fine powdergr. 350
This is known as "Mackenzie's Eye	Talcum, fine powderav.oz. 7
Lotion:"	This is the "Salicylated Powder of Tal-
IV.	cum" of the N. F. The corresponding
Glycerite of hydrastisfl.dr. 1	preparation of the German pharmacopula
Zinc sulphategr. 8 Morphine sulphategr. 8	contains powdered starch instead of the boric
Borax	acid.
Glycerinfl.oz. 1	II. ·
Rose water fl.oz. 7	Mercuric chloridegr. 1
Mix, dissolve and filter.	Sodium salicylateav.oz. 1
V. Zinc oxidegr. 5	Prepared chalk
Morphine sulphategr. 2	Dust a little of the powder in the socks
Camphor gr. 1	every morning.
White wax	III.
Oil of rosesufficient to flavor	Zinc oleate, powderav.oz. 1 Boric acid, fine powderav.oz. 2
Melt the wax, add the lard, allow to cool,	Talcum, powderav.oz. 3
when nearly cold add the camphor, allow it	IV.
to dissolve, and then incorporate with the	Salicylic acidav.oz. 🤽
other ingredients so as to make a thoroughly	Alum, powderav.oz. ½ Starchav.oz. 2
smooth ointment.	Oil of bergamotdrops 54
VI.	Alcohol fl.dr. 4
Burnt alumgr. 90	Talcum, powderav.oz. 7
Opium, powdergr. 60 Olive oilfl.dr. 3	Dissolve the acid and oil in the alcohol,
Simple cerateav.oz. 34	and rub in mortar with the other ingredients
VII.	until the alcohol is dissipated.
Barium chloridegr. 6	V.
Calomelgr. 10 Simple ointmentav.oz. 1	Orris, powderav.oz. 1 Zinc oxideav.oz. 3
Simple ointmentav.oz. 1 Oil of rosedrop 1	Talcum, powderav.oz. 6
Use in scrofulous ophthalmia.	—D.
VIII.	VI. Salol or 100
Yellow mercuric oxidegr. 5	Salolgr. 100 Oil of wintergreendrops 50
Petrolatumav.oz. 1	Talcum, powderav.oz. 10
Reduce to a very smooth ointment.	D.

VIL

Zinc oxideav.oz.	2
Starchav.oz.	23
Salicylic acidgr.	120
Talcum, powderav.oz.	15
Oil of wintergreendrops	12
	-D.

#### VIII.

Potassium permanganategr. Thymolgr.	
Distilled waterfl.oz.	16

### Female Disorders, Remedies for.

Remedies for female disorders are of several kinds. Many are uterine tonics (such as Nos. I and II below), these being intended to strengthen or "tone up" organs of gestation to fit woman to endure child bearing with comfort, to prevent, relieve, and cure distressing pains which occur from excessive or tardy menstruation, and to relieve the nervous disorders accompanying these complaints. These preparations are known by such names as "Catholicon," "Woman's Friend," "Female Remedy," "Mother's Friend," "Female Tonic," etc.

No III below is used as a galactagogue to increase the flow of milk in nursing women; No. IV as an anti-galactagogue or anti-lacteant to suppress or retard the flow of milk; and Nos. V and VI, as emmenagogues to assist the functions of the womb during or just preceding menstruation.

#### I.

Fluid extract of squaw vinefl.oz.	4
Fluid extract of cramp barkfl.oz.	2
Fluid extract of blue cohosh fl.oz.	2
Fluid extract of damianafl.oz.	2
Fluid extract of helonias fl.oz.	2
Fluid extract of cinchonafl.oz.	2
Sherry winefl.oz.	50

### II.

Fluid extract of life rootfl.oz.	1
Fluid extract of helonias fl.oz.	1
Fluid extract of black hawfl.oz.	1
Fluid extract of cascarilla fl.oz.	1
Fluid extract of cascara sagrada fl.dr.	2
Fluid extract of Jamaica dog-	
woodfl.dr.	6
Fluid extract of rhubarbfl.dr.	4
Alcoholfl.oz.	12
Simple syrupfl.oz.	10
Simple elixir, enough to make. fl.oz.	48

### III.

Fluid extract of castor oil plant	
leavesfl.oz. 1	2
Fennelav.oz.	4
Anise	4
Wintergreen herbav.oz.	
Simple elixir, enough to make fl.oz. 4	18

Mix the 3 drugs, reduce to coarse powder, and extract by slow percolation, using the elixir as a menstruum. When 36 fluidounces of percolate are obtained, add to it the fluid extract.

IV. Make pills, each containing:

Sodium acetate	 	 	.gr. 3
Camphor	 	 	.gr. 1
Potassium nitrate	 	 	.gr. 1
<b>V</b> .			-

•															
Sacchar	ate	d	С	arl	Ь	on	a	te	c	f	i	r	o	n	
Myrrh .															
Ginger															

Mix and reduce to fine powder. The dose is 30 gr. taken 3 times daily.

# VI.

Myrrhgr.	12
Saffron	3
Oil of clovedrop	T

Mix and reduce to fine powder. This is sufficient for 1 dose, to be taken 3 times daily.

### Frost-Bite Remedies.

The continued and repeated application of cold upon those portions of the body not well supplied with blood, such as the finger, toes and ears, is liable to produce chilblains or similar disorder; if this application of cold be severe and long continued, the result is frost bite, more or less severe, followed possibly by gangrene (complete destruction of tissue). If the frost bite is only moderately severe, any of the stimulant applications mentioned below will prove beneficial. If it be severe enough so that gangrene may supervene, the patient should be directed to place himself immediately under the care of a trustworthy physician.

I.

Camphor powdergr.	90
Lanolinav.oz.	
Petrolatumav.oz.	1
Hydrochloric acidfl.dr.	1
To be constructed and	

To be applied evenings.

.gr. 180

60 .gr.

60 gr.

17	
II.	sucl
Iodine	of
Ether fl.dr. 10	Cop
Collodionfl.oz. 4	Cut
Mix and dissolve by agitation.	"Co
Apply with a camel's hair brush.	of (
	F
III.	
Tanningr. 30 Glycerin or spirit of camphorfl.oz. 2	the
Glycerin or spirit of camphorfl.oz. 2	is g
IV.	E
	sho
Peru balsam fl.dr. $1\frac{1}{2}$	
Cicobulguine mature restriction -	ope
	stin
Paint on the affected parts.	Ŧ
v.	I.
	P
Solution of chloride of iron fl.dr. 4	S
Venice turpentineav.oz. 1/2	V
Armenian boleav.oz. 34	Т
Oil of bergamotm. 40	
Petrolatum	stag
VI.	kali
Diachylon ointmentav.oz. 1	tim
Lanolinav.oz. 1	П.
Cottonseed oilfl.dr. 4	
Carbolic acidfl.dr. 1/2	B
	2
Oil of lavender drops 15	
Oil of lavenderdrops 15	G
VII. Other suitable preparations may be	
	G
VII. Other suitable preparations may be found under the head of "Ointments or	C V III
VII. Other suitable preparations may be	O V III T
VII. Other suitable preparations may be found under the head of "Ointments or Salves" and "Liniments," Part II.	C V III I L
VII. Other suitable preparations may be found under the head of "Ointments or Salves" and "Liniments," Part II. Gonorrhœa, Gleet and Allied Dis-	U V III I I IV.
<ul> <li>VII. Other suitable preparations may be found under the head of "Ointments or Salves" and "Liniments," Part II.</li> <li>Gonorrhœa, Gleet and Allied Dis- eases.</li> </ul>	U V III I I IV. T
<ul> <li>VII. Other suitable preparations may be found under the head of "Ointments or Salves" and "Liniments," Part II.</li> <li>Gonorrhœa, Gleet and Allied Diseases.</li> <li>Remedies for gonorrhœa may be used ex-</li> </ul>	U III I IV. A
<ul> <li>VII. Other suitable preparations may be found under the head of "Ointments or Salves" and "Liniments," Part II.</li> <li>Gonorrhœa, Gleet and Allied Dis- eases.</li> </ul>	U III I IV. I A Z
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known by som number such as "55," "400," etc. The "internal" remedies are usually known by

h titles as "Sandalwood Pills," "Paste Copaiba, Cubeb and Santal," " Paste of aiba and Santal," " Paste of Copaiba, eb and Matico,"" Gonorrhœa Paste," onfection of Cubeb and Copaiba,""Mass Copaiba,'' etc.

lemedies for external use may also be in form of bougies; one example of these iven among the following formulas.

very patient suffering with gonorrhœa uld be advised to keep the bowels well n and also to refrain from the use of any nulants during the course of the disease.

r.		
L.		

Potassium citrateav.os	z. 1
Syrup of citric acidfl.oz	z. 2
Water, enough to makefl.oz	z. 8

This is to be taken only in the very first res of the disease to render the urine aline. A tablespoonful is to be taken 3 es daily.

# erberine hydrochlorate.....gr. 15 Vater, enough to make .....fl.oz. 8 incture of hydrastis .....fl.dr. ime water.....fl.oz. 8 annic acid......gr. 20 lum ......gr. 20 inc sulphate.....gr. 8 inc sulphate.....gr. 10 ead acetate.....gr. 10 compound tincture of catechu. fl.dr. 1 incture of opium.....fl.dr. 8 Vater ..... fl.oz. 8 inc sulphate.....gr. 15 xtract of opium .....gr. 8 lycerite of hydrastis .....fl.dr. 2 lycerin ..... fl.oz. Vater, enough to make .....fl.oz. 8 inc sulpho-carbolate.....gr. 15 to 60 lydrogen peroxide.....fl.oz. 8 Ι. alsam of copaiba .....fl.oz. 1 Matico, powder.....av.oz. 1 Light magnesia sufficient to form a mass.

IX.

X.

•••	
Resin	4
Oil of sandalwoodfl.oz.	5
Calcined magnesiaav.oz.	1/2

Melt the resin, add the oil, and stir in the

Balsam of copaiba.....fl.oz. 8

Yellow wax ......av.oz.

Cubebs, powder ......av.oz. Sandalwood, powder .....av.oz. Buchu, powder .....av.oz.

Colocynth, powder.....av.oz.

magnesia when nearly cold.

# XV.

Oil of sandalwood ......gr. 300 Yellow wax.....gr. 300

Melt the wax at the lowest possible temperature, add the oil, allow to cool, and divide into 100 pills or capsules.

XVI.

4

4

2

Ж

Yellow wax
Balsam of copaibagr. 300
Oleoresin of cubebgr. 100
Iron sulphate, dried
Carbolic aciddrops 33
Extract of belladonna, powdergr. 12
Oil of peppermintsufficient to flavor

Melt the wax at the lowest possible temperature, add the balsam, oleoresin, and acid, allow to cool, incorporate the extract, iron salt and oil, and divide into 100 pills or capsules.

Any of the pastes enumerated above may also be converted into pills or capsules.

#### XVII.

Carbolic aciddrop 1
Zinc acetategr. 10
Iron persulphate, powdergr. 4
Extract of hydrastis
Extract of belladonnagr. 30
Cacao butter, gratedsufficient

Convert this mixture into 30 bougies, each 2 inches long and about 1/2 inch thick. These may be rolled out on a pill tile or pill machine. See Bougies, Part I, for details. These bougies may be advised for gonorrhœa, gleet and spermatorrhœa (nocturnal emissions).

#### XVIII.

Fluid extract of eucalyptusfl.oz. 8	
Mucilage of acaciafl.oz. 8	
Balsam of copaiba fl.oz. 8	

Mix well by agitation.

XIX.

Balsam of copaiba	fl.oz.	2
Oil of sandalwood	fl.dr.	4
Acacia, powder	gr.	320
Oil of wintergreen	fl.dr.	1
Simple syrup	fl. oz.	4
Water, enough to make	fl. oz.	16

Mix the balsam and two oils and triturate this mixture intimately with the gum; then add all at once 14 fluidrams of water, triturate rapidly until an emulsion is formed, and add the remainder of the water and the syrup.

### Gout, Remedies for.

See under Rheumatism and Gout,

XI.

Balsam of copaibafl.oz. fl.oz. fl.oz.	4
Sugar, powder	216
Magnesia (calcined)av.oz.	812
Licorice root, powderav.oz.	8

Melt the wax by the aid of heat, add the

copaiba and with the powders form a paste.

<sup>Rub</sup> up the copaiba and glycerin intimately together, and then add the remaining ingredients gradually in the order named.—D.

ХП.

Balsam of copaiba	.av.oz. 4
VIL Of sandalwood	6071
VUD turnentine	ATT OF 4
Cubeb, powder	sufficient

Melt the turpentine with the copaiba by the aid of gentle heat, add the oil and incorporate in the melted mass as much of the cube bs as will form a suitable paste.

### XII I.

Alum, powderav.oz. 1 Subcarbonate of ironav.oz. 4	
sam of copaida, enough to	
form a suitable mass or paste	

XIV-\_

Balsam of copaibaav.oz.	8
Gum turpentine	8
Oleoresin of cubebfl.oz.	1
A lum, powder	1
Tract of licorice, powderav.oz.	2
<b>Gil</b> of wintergreen, sufficient to	
Aavor suitably.	
flavor suitably. <b>Cube</b> b powder, sufficient to form	
a suitable mass or paste.	

Melt the turpentine at a gentle heat, add the copaiba, add the oleoresin, alum and extract, allow to cool, and then add the oil and cubeb.

Hay Fever Remedies.	111.
I.	Acetanilidgr. 3 Caffeinegr. 1
Borax	Sodium bromidegr. 7
Ammonium carbonate	Make 1 powder, pill, capsule or tablet.
All in fine powder and to be well mixed.	IV.
This is to be insufflated into the nostrils several times daily.	Acetanilid
II.	Mix, make 10 gr. doses, and form into
Boric acidgr. 60 Sodium salicylategr. 75 Cocaine hydrochlorategr. 4	powders, pills, capsules, etc. V.
Make a powder.	Caffeinegr. 20
This powder is to be insufflated into the	Ammonium carbonate
nostrils frequently during the day. For the	One fluidram every hour until relieved.
eyes, where affected, a wash of zinc or cop- per sulphate should be ordered.	This is suitable for neuralgic headaches.
III.	VI.
III.       Cocaine hydrochloridegr. 6         Carbolic acidgr. 10       Mentholgr. 20         Oil of sweet almondfl.dr. 2	Oil of lavender flowers       fl.dr. 1         Camphor       av.oz. 1         Water of ammonia       fl.oz. 4         Alcohol       fl.oz. 16
Zinc ointmentgr. 240	Mix and dissolve. For inhalation and ap-
This is to be applied on a cotton pledget.	plication to the forehead.
The cocaine makes the above two formulas	VII.
dangerous without specific warning against the continued use of the preparations.	Cerium oxalategr. 192 Sodium bicarbonategr. 192 Caffeine citrategr. 48
Headache Remedies.	Magnesium carbonate
Headache remedies are now quite numer- ous and almost every pharmacist prepares a remedy to replace the "patented" articles.	Acetanilid
These remedies are usually put up in the	Mix intimately, reducing to very fine pow-
form of powders, capsules, wafers, pills and	der. Divide into 10 gr. powders, wafers or
tablets, but the ingredients are practically alike. The common ingredients of these	capsules, or make 5 gr. tablets or pills, di- recting the patient to take 1 of the former or
preparations are acetanilid, phenacetin, caf-	2 of the latter at a dose.
feine, bromides, sodium bicarbonate (to cor-	VIII. The Effervescent Potassium Bro-
rect acidity of the stomach), etc.	mide with Caffeine, Part I, will also be
Some of the headache remedies appear in	found serviceable.
the form of effervescent salts; the ingredi-	IX. The latter may also be made with the
ents are, however, similar to those of the	addition of acetanilid; the product will re-
other remedies.	semble the different effervescent headache
I.	remedies of the market.
Acetanilid	Itch, Remedies for. The disease known as itch, or, more prop-
Make 1 powder, pill, capsule or tablet.	erly, scabies, is a very annoying and tolera-
II.	bly common complaint. It is a parasitic skin
Phenacetingr. 10	disease, and for this reason the mode of
Caffeine	tweatment is practically the same as for sta

treatment is practically the same as for the

•

other skin diseases.

The remedies mentioned below are all to VIII. be applied several times daily. Sul

I.

Red oxide of mercuryav.oz.	1
Burgundy pitchav.oz.	1
Oil of turpentinefl.oz.	
Lard	
Suet	16

Melt the pitch, add the suet and lard, mix well, allow to cool, add the oil, and then incorporate thoroughly with the mercury oxide.

т	T.	
	••	

Sulphurav.oz.	21/2
Birch tar, crudeav.oz.	21/2
Prepared chalkav.oz.	11
Green soap,	5
Lardav.oz.	5

This is "Hebra's Itch Ointment."

### III.

Potassium nitrate, powdergr.	40
White hellebore, powderav.oz.	1
Sulphurav.oz.	21/2
Soft soapav.oz.	21/2
Lard	

# IV.

Sulphurated potassa or potassi- um sulphuretgr.	800
Sodium carbonategr.	
Lard	2
Soft soapav.oz.	2
Olive oilfl.oz.	1

Rub the sulphurated potassa to a very fine powder and mix intimately with the other ingredients.

v.

Mentholgr.	110
Peru balsamav.oz. Lanolinav.oz.	1/2
Lanolinav.oz.	10

Dissolve the menthol in the lanolin melted at a very gentle heat and incorporate the balsam with this solution.

VI.

Sulphurated potassa (sulphuret	
of potash)gr.	800
White soapgr.	150
Lime waterfl.oz.	121/2
Diluted alcoholfl.oz.	3

Make an intimate mixture.

This has been known as "Barton's Lotion."

VII.

Ammoniated mercurygr.	10
Lead acetategr.	30
Sulphurgr.	60
Carbolic aciddrops	10
Petrolatumgr.	<b>B60</b>

Green soap	20
Green soapgr. 12 Waterfl.oz.	8
1X.	
Storaxav.oz.	8
Olive oilfl.oz.	1
Alcoholfl.oz.	
х.	
Sulphurav.oz.	8
Starch, powderav.oz.	8
Oil of bergamotfl.dr.	1
XI.	
Crude petroleumav.oz.	2
White waxav.oz.	11
Alcoholfl.oz.	2

Sulphuret of potash ......gr.

Mix the petroleum, wax and alcohol in a flask until solution has taken place. Then add the soap, continue the heat, until the soap is liquefied, allow to cool and cut into bars or else pour into molds before quite hard. This is essentially a "petroleum soap."

Castile soap.......av.oz. 4

XII. Compound Sulphur Ointment, Part I, is an excellent itch remedy.

XIII. Other remedies enumerated under "Remedies for Barber's Itch," "Eczema Remedies " and " Ointments or Salves," may be employed for the troublesome affection.

### Kidney Remedies.

Some years ago preparations for the kidneys were marketed under the name of "Buchus;" there have also been "Diuretic Elixirs," and now these preparations are usually termed "Kidney and Liver Remedies." The latter are therefore to be recommended for affections of the liver, kidney and urinary organs. Many of the remedies for liver complaints may consequently be recommended for kidney affections and conversely many remedies for the kidney may be recommended for the liver.

Kidney remedies need not necessarily be of the liquid form; they may be in the form of coarse powder or species which should be infused with water before using.

#### I.

Liverwortav.oz.	1
Hydrangeaav.oz.	1
Scopariusav.oz.	1
Canadian hemp (apocynum) av.oz.	1
Couch grassav.oz.	1
Potassium nitrategr.	320
Alcoholfl.oz.	3
Syrupy glucosefl.oz.	3
Watersuff c	ient

Infuse the drugs with hot water so as to make 10 fluidounces of product, and to this add the alcohol and glucose.

Fluid extracts may be substituted for the drugs, in which case the alcohol should be omitted and the amount of water used be reduced to 8 fluidounces.

II.

Liverwort	
Jamaica dogwood	av.oz. 1
Couch grass	av.oz. 4
Gaultheria	av.oz. 2
Potassium nitrate	av.oz. 1
Alcohol	fl.oz. 32
Glycerin	fl.oz. 12
Water, enough to make	gal. 1

Grind the drugs to coarse powder, percolate with all the glycerin and alcohol mixed with 32 fluidounces of water. When that has all passed add enough hot water to make 1 gallon, add the nitrate of potassium and dissolve.

III.

Fluid extract of buchufl.oz.	3
Fluid extract of dandelionfl.oz.	3
Potassium acetateav.oz.	3
Fluid extract of juniper berries. fl.oz.	2
Fluid extract of pareirafl.oz.	2
Fluid extract of stone rootfl.oz.	2
Simple elixir, enough to make. fl.oz.	82

IV.

Poppy heads, bruisedav.oz.	6
Waterfl.oz.	24
Potassium nitrateav.oz.	1

Mix the poppy heads and water, boil until the liquid is reduced to about 8 fluidounces, express, adding, if necessary, enough water to make 8 fluidounces and in this dissolve the potassium salt.

Dose: One to 2 teaspoonfuls night and morning.

V.

•	
Buchuav.oz.	6
Juniper berriesav.oz.	4
Liverwortav.oz.	2
Hydrangeaav.oz.	2
Potassium acetate	2
Spirit of nitrous etherfl.oz.	2
Sugarav.oz.	6
Alcoholfl.oz.	
Water, enough to makefl.oz.	64

Mix the drugs, reduce to coarse powder, moisten with a menstruum consisting of a mixture of the above-mentioned amount of alcohol mixed with 32 fluidounces of water. Then extract by percolation in the usual way, using water as a menstruum when all of the above mixture has been consumed. Allow percolation to cease when 58 fluidounces of percolate have been obtained; in this dissolve the sugar and potassium acetate, and then add the spirit of nitrous ether.

VI. Any of the elixirs containing buchu in Part I may be dispensed as kidney remedies.

VII.

Buchu	.av.oz. 8	ł
Uva ursi	.av.oz. 8	3
Juniper berries	.av.oz. 4	ł

Make into coarse powder.

VIII.

Chicory	.av.oz.	9
Couch grass		
Senna	.av.oz.	2
Red clover	av. oz.	1
Bittersweet	.av.oz.	2

All the drugs should be cut tolerably fine and be well mixed.

### Liniments.

Liniments are in considerable demand and every pharmacist should have such a preparation ready to offer for sale. Some of these liniments may also be taken internally for cramps, cholera, diarrhœa, etc., and these may be known by such titles as "Pain Cure," "Pain Dispeller," "Pain Expeller," "Rapid Relief," "Pain Killer." etc. Other names which may be employed are "Stimulant Liniment," "Electric Liniment," "Embrocation," "Nerve and Bone Liniment," "Arnica Liniment," "Rheumatic Oil," "Rheumatic Liniment," "Universal Liniment," "Rocky Mountain Liniment," •

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"Penetrating Liniment," "Red Oil," "Indian Liniment," "Wizard Liniment," "Wizard Balm," "Golden Oil," "Knickerbocker Liniment," "Bicycle Liniment," etc. If it be white, it might be known as "White Liniment " or "Cream Liniment."         These liniments are recommended for rheumatism, neuralgia, bruises, chilblains, frost bites, sprains, stings and bites of insects, lameness, etc. Many of the preparations may also be employed for veterinary purposes, see also Part IV.         I.       Capsicum, powdergr. 60         Oil of origanumfl.dr. 4       Oil of sassafrasfl.oz. 1         Fusel oilfl.oz. 8         Kerosene oil	VII.       Oil of tar fl.oz. 4         Oil of sassafras fl.oz. 1         Carbolic acid, crystal av.oz. 2         Camphor
Alcohol, enough to make fl.oz. 32         III.         Kerosene oil	Liquid petrolatumfl.oz. 20 Oil of origanumfl.oz. 4 Carbolic acidfl.dr. 4 Ammonia waterfl.oz. 5 Capsicum, powderav.oz. 3 Mix, macerate for 8 days, agitating occa- sionally and strain. XII. Camphorav.oz. 1 Oil of amberfl.oz. 1 Oil of origanumfl.oz. 2 Crude petrolatumfl.oz. 4
Tincture of arnica	Kerosene oil       fl.oz. 10         Oil of turpentine       fl.oz. 16         XIII.       Castile soap, powder       av.oz. 2         Oil of origanum       fl.oz. 2         Oil of turpentine       fl.oz. 2         Volks of eggs       4         Camphorated oil.       av.oz. 2         Ammonia water       fl.oz. 8         Mix.       Known as '' White Oil.''         XIV.       Capsicum, powder       1
VI. Tincture of capsicumfl.oz. 8 Water of ammoniafl.oz. 8 Soap linimentfl.oz. 16	Camphorated oil

and yolk—until they are thoroughly mixed, and add: Acetic acid ......fl.oz. 2<sup>1</sup>/<sub>4</sub>

Water ..... fl.oz. 16

#### Liver Remedies.

Remedies for the liver are usually termed "Liver Invigorators" or "Liver Regulators," very frequently "Kidney and Liver Remedies;" in fact most remedies for liver complaints are also recommended for derangements of the kidneys. Some of the liver remedies assume the liquid form, some are in the form of species, some in pill form (see Cathartics), etc. In addition to the formulas here mentioned, some of the blood purifiers, "bitters," cathartics, and kidney remedies may be recommended for assisting the liver in its functions.

#### I.

Fluid extract of rhubarbfl.oz.	2
Fluid extract of leptandrafl.oz.	2
Fluid extract of podophyllum. fl.oz.	28
Compound tincture of gentian. fl.oz. Compound tincture of cardamom fl.oz.	4
Tincture of gingerfl.oz.	2
Simple elixirfl.oz.	-

#### II.

Fluid extract of leptandra.....fl.oz. 1 Fluid extract of podophyllum...fl.oz. 1 Fluid extract of senna......fl.oz. 5 Fluid extract of serpentaria....fl.oz. 2 Diluted alcohol, enough to make fl.oz. 64

#### III.

Leptandra, serpentaria, liverwort,

senna, butternut, of eachav.oz.	- 2
Licorice root, anise, of eachav.oz.	1
Mix and reduce to coarse powder.	

### Moles, For Removing.

Tartar emetic, fine powdergr.	30
Soap plasterdr.	115
Venice turpentinedr.	- X
Mix intimately, and spread upon adl	
plaster. Apply firmly to the surface o	f the
mole, and when suppuration sets in, rer	nove.

### Nervous Debility, Remedies for.

Of late it has become quite the fashion for the public in general to believe they are suffering from nervous disorders, and many socalled "nervines" have appeared upon the market. Some of these contain celery, others phosphorus and damiana, the latter also frequently containing kola, nux vomica, gentian, cinchona, or columbo.

These preparations may, according to their form or composition, be known as "Celery Compound," "Celery Nervine," "Celery Cordial," "Nerve Tonic," "Vitalizer,"

### XV.

Tincture of capsicum	.fl.oz.	20
Tincture of ginger		
Tincture of myrrh	fl.dr.	10
Tincture of guaiac	fl.dr.	18
Tincture of opium	.fl.oz.	21/2
Camphor	av.oz.	1/2
Alcohol, enough to make	fl.oz.	64

Mix and dissolve the camphor by agitation.

### XVI.

Oil of camphor (Japanese)	fl.oz.	8
Oil of turpentine	fl.oz.	40
Benzine, deodorized		
Cottonseed oil	fl.oz.	16
Capsicum, powder	.av.oz.	1

Macerate the capsicum with the benzine for 7 days, agitating frequently, and strain. Mix the oils of camphor, turpentine and cottonseed and add the previous liquid.

#### XVII.

Tincture of cantharidesfl.oz.	3
Tincture of myrrhfl.oz.	4
Tincture of guaiacfl.oz.	4
Oil of hemlock fl.oz.	
Oil of turpentinefl.oz.	8
Cottonseed oilfl.oz.	
Oil of camphor (Japanese)fl.oz.	16
Water of ammonia, strongfl.oz.	4
Solution of potassafl.oz.	

### XVIII.

Oil of clovefl.dr.	3
Oil of origanumfl.dr.	- 4
Spirit of ammoniafl.oz.	
Etherfl.oz.	
Alcoholfl.oz.	

### XIX.

The following is similar to certain preparations known by the term "Fluid Lightning:"

Aconitinegr.	2
Oil of mustard, etherealfl.dr.	2
Chloroformfl.dr.	2
Ether, strongerfl.oz.	1
Alcoholenough to make fl.oz.	

The above is a valuable external application for headache, rheumatism, neuralgia, and all nervous pains.

### XX.

Any of the liniments of Part I may also be employed.

"Vitalizing Tonic," "Damiana Compound," "Nervous Debility Pills," "Aphrodisiac Elixir," "Aphrodisiac Pills," "Compound Damiana Pills," etc.

I.

Celery seed	gr. 384
Catnip	gr. 640
German chamomile	gr. 384
Simple elixir	fl. oz. 12
Diluted alcohol	sufficient

Percolate the mixed and ground drugs with the elixir and then pass enough diluted alcohol through the drug to make 16 fluidounces of product.

### II.

Fluid extract of celery seedfl.dr.	10
Fluid extract of catnipfl.dr.	
Fluid extract of chamomilefl.dr.	
Diluted alcoholfl.oz.	6
Simple syrupfl.oz.	2
Glycerinenough to make fl.oz.	

### III.

Celery seedav.oz.	2
Red cinchonaav.oz.	1
Orange peelav.oz.	- ¥
Coriander seedav.oz.	X
Lemon peelav.oz.	4
Muriatic acidm.	15
Alcoholfl.oz.	5
Glycerinfl.oz.	4
Water	
Simple syrupfl.oz.	4
Diluted alcoholsufficie	ent

Mix all the drugs and grind to a moderately coarse powder. Mix the acid, alcohol, glycerin and water; percolate the drug with this mixture, adding enough diluted alcohol to make 12 fluidounces. Add the syrup and if necessary filter. The flavoring may be altered to suit. Some like rose.

### IV.

18

Compound Elixir of Celery. See Part I. V.

Coca	8
Damianaav.oz.	8
Gentianav.oz.	8
Potassium bromideav.oz.	11
Sodium salicylateav.oz.	1
Dandelion	8
Alcoholfl.oz.	16
Glycerin,	
Waterof each, sufficient	ent

Mix 82 fluidounces of alcohol and the glycerin with 80 fluidounces of water. Also mix the coca, damiana, gentian, and dandelion, reduce to coarse powder, extract by lin afterwards.

percolating the previous mixture through it, in the percolate dissolve the salts, and then if necessary pass enough of the mixture of one volume of alcohol and 3 of water through the mixture to make the entire percolate measure one gallon.

	_	
17	т	
v		

.av.oz. 3
.av.oz. 8
.av.oz. 8
.av.oz. 8
fl. oz. 2
sufficient

Mix the nux vomica, damiana, gentian, and columbo in ground form, percolate with a mixture of 1 volume of alcohol and 3 of water so as to obtain 62 fluidounces of percolate and to this add the acid VII

Make a mixture of drugs as in the preceding instance, percolate in the same manner, obtaining 56 fluidounces of percolate and to this add  $7\frac{1}{2}$  fluidounces of spirit of phosphorus.

VIII. Instead of the preceding, use one of the elixirs of Part I, containing phosphorus, damiana, and nux vomica.

737	
1.3	

Celery seedav.oz.	4
Kolaav.oz.	11/2
Red cloverav.oz.	8
Cascara sagradaav.oz.	8
Simple syrupfl.oz. Alcohol, water, of eachsufficie	16
Alcohol, water, of eachsufficie	nt

Mix the drugs, reduce to coarse powder. percolate with a mixture of 1 volume of alcohol and 8 of water, to obtain 112 fluidounces, and to the percolate add the syrup.

This combines the "blood-purifying" laxative, and nerve-tonic properties.

X.

T

Phosphorusgr.	L
Extract of damianagr. 200	
Extract of nux vomicagr. 12	3
Make into 100 pills.	

### Neuralgia Remedies.

Mentholgr.	45
Cocainegr.	
Chloral	
Petrolatumgr.	300

Apply to painful part, covering with musin afterwards.

### п.

The ointment mentioned under Rheumatism and Gout Remedies will be found serviceable as an anti-neuralgic ointment.

### 111.

Ipecac	gr.	60
Quinine sulphate		
Strychnine	.gr.	1
Reduced iron	.gr.	25
Make into 30 pills.		

Label: One pill three times a day.

### IV.

Atropine sulphategr.	1
Morphine sulphategr.	8
Camphor, powdergr.	120
Chloroformfl.dr.	- 3
Tincture of cannabis indicafl.dr.	1
Alcohol, enough to makefl.oz.	8

Dose: 30 to 40 drops.

#### v.

Oil of peppermintfl.oz. 8	3
Tincture of aconitefl.oz. 4	ł
Chloroformfl.oz. 2	3

Apply every half hour or every hour.

### VI.

Arsenic iodidegr. 1
Extract of belladonna gr. 8
Morphine valerianategr. 8
Extract of gentiangr. 5
Fluid extract of aconite rootdrops 5
<b>_</b>

Make into 60 pills.

Label: Take from 1 to 3 pills in twentyfour hours.

#### VII.

Chlor.	hydrate	, camphor, each, av. oz.	11/2
Morph	nine sulj	ohategr.	20
Atrop	ine sulp	hategr.	1
Chlore	oform .	••••••fl.oz.	1
Mix.	Dose:	10 to 20 drops.	

### Nipples, Cures for Fissured.

(Mammillary Lotions, Ointments, etc.)

I.	
Ichthyolgr. 1	20
Laholingr. 1	80
Glycerinfl.dr.	8
Olive oilfl.dr.	1/2
11.	

Salicylic acidgr.	
Tannic acidgr.	8
Boraxgr.	60
White waxgr.	120
Lard, benzoinatedgr.	

T	T	T	
T	T	T	•

I

0
2
1
4
0
12
1
2
1

Triturate the balsam, oil, and egg yolk together until an emulsion is formed, then add the water and finally the alcohol.

### v.

Lead nitrategr.	10
Rose waterfl.oz.	
Cochineal coloringdrops	10

Mix and dissolve.

VI.

To prevent fissuring of the nipples, apply lanolin with the onset of labor four times daily till lactation is established. The nipples are then, after each nursing, anointed with the following:

Compound tincture of benzoin. drops	15
Olive oiltl.dr.	
Lanolin gr. :	360

### Ointments or Salves.

The ointments mentioned below are useful applications for cuts, burns, ulcers, bruises, bites and stings of insects, frost bites, chilblains, bed sores, etc. Appropriate titles for these preparations are "Household Salve," "Arnica Salve," "Domestic Salve," "Healing Salve," "Carbolic Salve," etc.

Other ointments useful for all parasitic skin diseases may be found under the head of "Remedies for Barber's Itch," "Itch Remedies," and "Eczema Remedies."

### I.

Petrolatumav.oz.	16
Yellow waxav.oz.	11
Camphorav.oz.	1
Carbolic acid, crystaloz.	1/2
Carbolic acid, crystaloz. Oil of sassafrasdrops	80´¯

Melt the carbolic acid and while warm add the camphor and oil of sassafras. Melt the wax and add to it the petrolatum, melting them together; while cooling but still liquid add the solution of camphor in carbolic acid, etc., and stir occasionally while cooling.

neutralized in this preparation by the camphor.

11.	
White waxav.oz.	4
Lardav.oz.	12
Carbolic acid, crystalav.oz.	- 1
Calomelgr.	$240^{\circ}$
Camphorgr.	<b>6</b> 0

Prepare this like the preceding, thoroughly incorporating the calomel by frequent stirring until the ointment is almost solid.

#### III.

Solid extract of arnicagr.	120
Lardav.oz.	1412
Yellow waxav.oz.	1/2
Hot watersuffic	ient

Dissolve the extract of arnica in the hot water, and thoroughly incorporate it with the lard and beeswax previously melted together.

### IV.

Yellow waxav.oz. Petrolatumav.oz.	11
Petrolatumav.oz.	1412
Arnica flowersav.oz.	4

Melt the wax, add the petrolatum, stir in the flowers, heat moderately for one hour, stirring frequently; strain and allow to cool.

### V.

Simple cerate or simple oint-	
mentav.oz.	
Boric acidav.oz.	1

Make an intimate mixture.

### VI.

Yellow	wax		•				•											.av.oz.	2
Petrola																			
Thymo	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	. av. oz.	1

Melt the wax, add the petrolatum, and then stir in the thymol.

### Pile Remedies.

Piles, or hemorrhoids, as they are more correctly termed, are a very common and very annoving affection. They are termed "internal" piles when they exist within the sphincter controlling the muscles of the anus, and "external" piles when existing outside of this sphincter. Other terms also are used in describing them: Blind piles which are simply a varicose state of the veins without bleeding; itching piles, bleeding piles, which 2 per cent carbolic acid solution.

The caustic properties of the carbolic acid are are accompanied by loss of blood at every evacuation, and mucous piles, when pus or mucus only is discharged.

> Treatment of piles should be both constitutional and local. The constitutional treatment should consist of the taking of compound licorice powder or one of the "bitter waters" at night. For local treatment, a mixture of an astringent like nutgall, tannin, extract of witch hazel, extract of krameria, lead acetate or iron subsulphate, with an anodyne like opium, belladonna, conium, tobacco, stramonium, ergot, or morphine is considered advisable. Other agents sometimes added to this mixture are antiseptics like iodoform, tar, peru balsam, carbolic acid. betanaphthol or salol. This mixture may assume the form of an ointment or of suppositories. The former should be preferred for external, the latter for internal, piles. When the piles are only tolerably severe, these remedies afford prompt relief, but when quite severe, only surgical intervention will effect a cure.

#### I.

Fluid extract of witch hazelfl.oz.	1
Peru balsamgr.	120
Fenugreekav.oz.	1
Petrolatumav.oz.	
Paraffinav.oz.	4

Melt the petrolatum with gentle heat and macerate therein the fenugreek, for half an hour; then add the paraffin and strain through cloth. When about to solidify, add the extract of witch hazel to which the balsam has been added, stir until cool.

#### II.

Nutgall, fine powderav.oz.	4
Opium, fine powdergr.	<b>9</b> 0
Lard, fresh,, av.oz.	6

#### III.

Morphine sulphategr.	2
Olive oilfl.dr.	
Zinc ointmentav.oz.	1
Nutgall, fine powdergr.	120

### IV.

Chrysarobingr. Iodoformgr.	
Extract of belladonnagr. Petrolatumgr.	18
renolatumgi.	<b>4</b> 00

Before applying wash the parts with a

V.	XI
Bethanaphthol gr. 10	
Extract of ergotgr. 20 Extract of belladonnagr. 20	
Lead acetategr. 50	Ō
Opium, powder	N
Simple ointmentgr. 250	XI
VI.	I
Lead acetategr. 15 Extract of conium	
Crocated tincture of opiumdrops 10	Ċ
Peru balsamgr. 45	N
Simple cerategr. 375 —H.	xv
This is known as "Hellmund's Narcotico-	I
balsamic Ointment."	F C
VIJ.	v v
	Ċ
Iron persulphate, powdergr. 40 Lardav.oz. 1	N
Oil of bitter almonddrops 2	C
VIII.	eact
Extract of belladonnagr. 11/2	xv
Antipyrin	E
Salol	
Make into 12 suppositories.	l č
IX.	N
Cocaine hydrochlorategr. 8	
	Rh
Oil of eucalyptus m. 12 Extract of krameriadr. 2	к
Oil of eucalyptusm. 12 Extract of krameriadr. 2 Cacao buttersufficient	R inte
Oil of eucalyptus       m. 12         Extract of krameria       dr. 2         Cacao butter       sufficient         Make the following into 12 supposi-	R inte nal
Oil of eucalyptus	R inte nal resu
Oil of eucalyptus	R inte nal resu if ac
Oil of eucalyptus       m. 12         Extract of krameria       dr. 2         Cacao butter       sufficient         Make the following into 12 suppositories:         X.         Extract of belladonna         2.         1.         2.         <	R inte nal resu
Oil of eucalyptus       m. 12         Extract of krameria       dr. 2         Cacao butter       sufficient         Make the following into 12 suppositories:         X.         Extract of belladonna       gr. 1½         Iodoform       (gr. 12 to) gr. 24         Chrysarobin       gr. 12	R inte nal resu if ac cati
Oil of eucalyptus       m. 12         Extract of krameria       dr. 2         Cacao butter       sufficient         Make the following into 12 suppositories:         X.         Extract of belladonna       gr. 1½         Iodoform       gr. 12 to) gr. 24         Chrysarobin       gr. 12         Cacao butter       suthcient	R inte nal resu if ac cation R
Oil of eucalyptus	R inte nal resu if ac cati k omr
Oil of eucalyptus       m. 12         Extract of krameria       dr. 2         Cacao butter       sufficient         Make the following into 12 suppositories:       X.         Extract of belladonna       gr. 1½         Iodoform       gr. 12 to) gr. 24         Chrysarobin       gr. 12         Cacao butter       gr. 12         Sufficient       X a.         Extract of belladonna       gr. 6	R inte nal resu if ac cati k omr exte
Oil of eucalyptus       m. 12         Extract of krameria       dr. 2         Cacao butter       sufficient         Make the following into 12 suppositories:         X.         Extract of belladonna       gr. 12 to) gr. 24         Chrysarobin       gr. 12 to) gr. 24         Cacao butter       sufficient         X a.       Extract of belladonna         Extract of belladonna       gr. 6         Tannic (or gallic) acid       gr. 24	R inte nal resu if ac cati k omr exte linir
Oil of eucalyptus       m. 12         Extract of krameria       dr. 2         Cacao butter       sufficient         Make the following into 12 suppositories:         X.         Extract of belladonna       gr. 1½         Iodoform       gr. 12 to) gr. 24         Chrysarobin       gr. 12         Cacao butter       gr. 12         Cacao butter       gr. 12         Cacao butter       gr. 12         Cacao butter       gr. 24         Chrysarobin       gr. 24         Cacao butter       sufficient         X a.       Extract of belladonna       gr. 6         Tannic (or gallic) acid       gr. 24         Cacao butter       sufficient	R inte nal resu if ac cati k omr exte linir suita (See I.
Oil of eucalyptus       m. 12         Extract of krameria       dr. 2         Cacao butter       sufficient         Make the following into 12 suppositories:         X.         Extract of belladonna       gr. 1½         Iodoform       gr. 12 to) gr. 24         Chrysarobin       gr. 12         Cacao butter       gr. 12         Cacao butter       gr. 12         Cacao butter       gr. 12         Cacao butter       gr. 24         Chrysarobin       gr. 24         Cacao butter       sufficient         X a.       Extract of belladonna         Extract of sufficient       gr. 6         Tannic (or gallic) acid       gr. 24         Cacao butter       sufficient         X I.       Sufficient	R inte nal resu if ac cati- k omr exte linir suita (See I. P
Oil of eucalyptus       m. 12         Extract of krameria       dr. 2         Cacao butter       sufficient         Make the following into 12 suppositories:       X.         Extract of belladonna       gr. 11/2         Iodoform       gr. 12 to) gr. 24         Chrysarobin       gr. 12         Cacao butter       sufficient         X a.       Extract of belladonna         Extract of belladonna       gr. 6         Tannic (or gallic) acid       gr. 24         Cacao butter       sufficient         X I.       Hydrastin       gr. 6         Ergotin       gr. 6	R inte nal resu if ac cati k omr exte linir suita (See I.
Oil of eucalyptus       m. 12         Extract of krameria       dr. 2         Cacao butter       sufficient         Make the following into 12 suppositories:       X.         Extract of belladonna       gr. 11/2         Iodoform       (gr. 12 to) gr. 24         Chrysarobin       gr. 12         Cacao butter       sufficient         X a.       Extract of belladonna         Extract of belladonna       gr. 6         Tannic (or gallic) acid       gr. 24         Cacao butter       sufficient         X I.       Hydrastin       gr. 6         Hamamelin       gr. 6	R inte nal resu if ac cati R omr exte linin suita (See I. P P W S
Oil of eucalyptus       m. 12         Extract of krameria       dr. 2         Cacao butter       sufficient         Make the following into 12 suppositories:       X.         Extract of belladonna       gr. 11/2         Iodoform       gr. 12 to) gr. 24         Chrysarobin       gr. 12 to) gr. 24         Chrysarobin       gr. 12         Cacao butter       sufficient         X a.       Extract of belladonna         Extract of belladonna       gr. 6         Tannic (or gallic) acid       gr. 24         Cacao butter       sufficient         XI.       Hydrastin       gr. 6         Hamamelin       gr. 6       Hamamelin         Opium       gr. 6       Hamamelin	R inte nal resu if ac cati k omr exte linin suita (See I. P P W
Oil of eucalyptus       m. 12         Extract of krameria       dr. 2         Cacao butter       sufficient         Make the following into 12 suppositories:       X.         Extract of belladonna       gr. 11/2         Iodoform       (gr. 12 to) gr. 24         Chrysarobin       gr. 12         Cacao butter       sufficient         X a.       Extract of belladonna         Extract of belladonna       gr. 6         Tannic (or gallic) acid       gr. 24         Cacao butter       sufficient         X I.       Hydrastin       gr. 6         Hamamelin       gr. 6	R inte nal resu if ac cati- k omr exte linir suit: (See I. P. P. W S. W
Oil of eucalyptus       m. 12         Extract of krameria       dr. 2         Cacao butter       sufficient         Make the following into 12 supposi-         tories:         X.         Extract of belladonna         You of form         Cacao butter         Cacao butter         Cacao butter         Carcao butter         Cacao butter         Sufficient         X a.         Extract of belladonna         Fannic (or gallic) acid         Gr. 24         Cacao butter         Sufficient         XI.         Hydrastin         gr. 6         Hamamelin         gr. 6         Tannin         gr. 7         Gopium         gr. 7         Mathematic         gr. 7         Hydrastin         gr. 7         Gopium         gr. 12         Cacao butter         sufficient	R inte nal resu if ac cati R omr exte linir suit: (See I. P P W S S W D a da
Oil of eucalyptus       m. 12         Extract of krameria       dr. 2         Cacao butter       sufficient         Make the following into 12 suppositories:       X.         Extract of belladonna       gr. 1½         Iodoform       (gr. 12 to) gr. 24         Chrysarobin       gr. 12         Cacao butter       gr. 12         Cacao butter       gr. 6         Tannic (or gallic) acid       gr. 6         Tannic (or gallic) acid       gr. 6         Hydrastin       gr. 6         Hamamelin       gr. 6         Dium       gr. 6         Tannin       gr. 6         Tannin       gr. 7	R inte nal resu if ac cati k omr exte linir suita (See I. P. P. W S. W D a da II.
Oil of eucalyptus       m. 12         Extract of krameria       dr. 2         Cacao butter       sufficient         Make the following into 12 suppositories:       X.         Extract of belladonna       gr. 11/2         Iodoform       (gr. 12 to) gr. 24         Chrysarobin       gr. 12         Cacao butter       sufficient         X a.       Extract of belladonna         Extract of belladonna       gr. 6         Tannic (or gallic) acid       gr. 24         Chrysarobin       gr. 6         Tannic (or gallic) acid       gr. 6         Hydrastin       gr. 6         Hamamelin       gr. 6         Opium       gr. 6         Tannin       gr. 12         Cacao butter       sufficient         XI.       Hydrastin         Hild and the sufficient       gr. 6         Tannin       gr. 12         Cacao butter       sufficient         XI.       Iter (Strate (S	R inte nal resu if ad cati- k omr extee linin suita (See I. P. P. W S. W D a da II. Sa
Oil of eucalyptus       m. 12         Extract of krameria       dr. 2         Cacao butter       sufficient         Make the following into 12 suppositories:       X.         Extract of belladonna       gr. 11/2         Iodoform       gr. 12 to) gr. 24         Chrysarobin       gr. 12 to) gr. 24         Chrysarobin       gr. 12 to) gr. 24         Chrysarobin       gr. 12 to) gr. 24         Cacao butter       sufficient         X a.       Extract of belladonna       gr. 6         Tannic (or gallic) acid       gr. 24         Cacao butter       sufficient         XI.       Hydrastin       gr. 6         Hamamelin       gr. 6       Tannin         Zacao butter       sufficient         XI.       gr. 6       Tannin         XI.       Sufficient       Sufficient         XII.       Iron subsulphate       gr. 36         Morphine sulphate       gr. 5       5	R inte nal resu if ac cati k omr extc linir suit (See I. P P W S W D a da II. Sag P C
Oil of eucalyptus       m. 12         Extract of krameria       dr. 2         Cacao butter       sufficient         Make the following into 12 suppositories:       X.         Extract of belladonna       gr. 11/2         Iodoform       (gr. 12 to) gr. 24         Chrysarobin       gr. 12         Cacao butter       sufficient         X a.       Extract of belladonna         Extract of belladonna       gr. 6         Tannic (or gallic) acid       gr. 24         Chrysarobin       gr. 6         Tannic (or gallic) acid       gr. 6         Hydrastin       gr. 6         Hamamelin       gr. 6         Opium       gr. 6         Tannin       gr. 12         Cacao butter       sufficient         XI.       Hydrastin         Hild and the sufficient       gr. 6         Tannin       gr. 12         Cacao butter       sufficient         XI.       Iter (Strate (S	R inte nal resu if ad cati- k omr extee linin suita (See I. P. P. W S. W D a da II. Sa

III. Tanningr. 36 Morphine sulphategr. 4 Potassium iodidegr. 24 Cacao buttersufficient
Make into 12 suppositories.
IV. Iodoformgr. 30 Extract of belladonnagr. 3 Morphine sulphategr. 1½ Cacao buttergr. 180
Make into 12 suppositories.
V. Iodoform
Make into 12 suppositories. One of these should be introduced after ch evacuation.
VI.         Extract of witch hazelgr. 60         Tanningr. 13         Opium, powdergr. 4         Cacao buttergr. 180
Make into 12 suppositories.

### Rheumatism and Gout Remedies.

Rheumatism may consist of remedies for internal or for external use. Those for internal use are to be preferred as affording better results, but the effects are still more marked if accompanied by the use of a suitable  $ap_{i}$  lication (liniment).

Rheumatism remedies are usually also recommended for gout. The remedies for the external treatment of gout may consist of iniments or ointments; an example of a suitable gout ointment is mentioned below. See also Liniments, in Part II.)

Potassium iodidegr.	240
Potassium bromidegr.	240
Wine of colchicum seedfl.oz.	
Syrup of orange or sarsaparilla fl.oz.	2
Waterfl.oz.	5

Directions: A teaspoonful 3, 4 or 5 times 'a day.

Salicylic acidgr.	150
Potassium citrategr.	300
Glycerinfl.oz.	2
Simple elixirfl.oz.	- 4

Mix and dissolve by agitation.

### Ш.

Potassium acetateg Sodium salicylateg		
Waterfl.o	z.	:
Simple syrupfl.o	z.	;

Sodium salicylateav.oz.	.6
Fluid extract of colchicum seed. fl.oz.	11%
Fluid extract of black cohoshfl.oz.	
Potassium acetatefl.oz.	4
Oil of wintergreenfl.dr.	1/2
Alcoholfl.dr.	4´
Simple syrupfl.oz.	8
Water, enough to makefl.oz.	

Dissolve the oil in the alcohol, add the fluid extracts, then the other ingredients, and dissolve by agitation.

#### V.

Sodium salicylategr.	360
Spirit of nitrous ether	360
Glvcerinfl.dr.	
Camphor water, enough to	
makefl.oz.	8

Dose: A tablespoonful three times a day.

### VI.

Sodium salicylategr.	120
Potassium iodidegr.	120
Potassium acetategr.	120
Fluid extract of cascara sa-	
gradafl.dr.	4
Glycerinfl.dr.	4
Cinnamon waterfl.dr.	4
Peppermint water, enough to	
makefl.oz.	3

Label: A teaspoonful every 8 hours.

The following are intended especially for parts. gout:

#### VII.

Menthol Chloroform, enough		
Mix and discolute	To be epplied or	•~•

Mix and dissolve. to be applied externally.

### VIII.

Rhubarb av.oz. 1
Sennaav.oz. 1
Corianderav.oz. 1
Fennel
Licorice rootav.oz. 1/2
Saffron
<b>Raisins</b>
Diluted alcoholpts. 8
Macerate for 14 days, express, and filter.
Dose: 1 to 8 tablespoonfuls daily.

# IX

Veratrinegr.	15
Alcohol fl.dr.	
Lanolinav.oz.	1
Petrolatumav.oz.	1
Oil of bergamotfl.dr.	1
White oil of thymefl.dr.	1

Dissolve the veratrine in the alcohol, add the other ingredients, and mix well.-II.

To be applied night and morning.

X. Many of the liniments may be employed externally for the relief of rheumatic pains; some of the "blood purifiers" and possibly some of the "bitters" may be recommended for the cure of rheumatism.

### Ringworm, Applications for.

I. Ointment of carbolic acid ..... av. oz. 2 II. Salicylic acid.....gr. 120 Lanolin .....av.oz. <u>بر</u> بر Lard.....av.oz. Apply night and morning.

III.

A more effective application than the latter is a saturated solution of salicylic acid in collodion. For a time this application may be quite painful.

### IV.

Mercuric chloride.....gr. 2 Compound tincture of benzoin...fl.oz. 1

Mix and dissolve. Paint over the affected

#### v.

Aromatic sulphuric acid	fl.oz. 1
Spirit of nitrous ether	
Creosote	

Apply once a day.

### VI.

Goa powder.....gr. 12 Lard.....av.oz. 1

Apply freely to part affected.

Instead of goa powder a corresponding amount of chrysophanic acid may be employed.

### Soothing and Teething Remedies.

These preparations usually have a title like "Baby Soothing Syrup," " Anise Soothing Drops," "Infant Teething Syrup,"

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"Baby Soother," "Teething Powders," etc. Most of the proprietary preparations of this kind depend for their "soothing" effect upon opium; others are simply carminative, depending for their value upon anise, sometimes combined with fennel, ginger, lactucarium, lupulin, etc. Inasmuch as the effects of opium are so pernicious, especially upon infants, it is best to refrain from giving formulas containing this agent or its chief alkaloid. There is also the disadvantage, with the use of opium, that it obscures the real difficulty; the infant may be suffering from a vital or dangerous disease which will result fatally if not properly treated by a competent physician.

In addition to the formulas for soothing remedies to be administered internally, there are given two others for application to the gums during dentition.

Ι.

Anisegr. 540
Fennelgr. 230
Carawaygr. 230
Gingergr. 25
Lactucariumgr. 30
Lupulingr. 120
Diluted alcoholsufficient
Simple syrupfl.oz. 21

Mis the drugs, reduce to powder, percolate with diluted alcohol so as to obtain 9 fluidounces of product and to this add the syrup.

#### II.

Anise, bruisedav.oz.	11%
Alcoholfl.oz.	4
Simple syrupfl.oz.	6
Anise water, enough to makefl.oz.	16

Macerate the anise in the alcohol for 5 days, filter, and to the filtrate add the remaining drugs.

#### III.

Anise	14
Fennelav.oz. Lactucariumgr.	1/2
Hopsgr.	120
Diluted alcoholfl.oz.	9
Simple syrup, enough to makefl.oz.	30

Mix the drugs, reduce to powder, percolate Mix all the dry ingredients, which should syrup.

IV.

Anetholdrops 50
Oil of fenneldrops 10
Alcoholfl.oz. 75
Waterfl.oz. 8%
Simple syrupfl.oz. 14
Purified talcumsufficient

Dissolve the oil and the anethol in the alcohol, add to a mixture of the syrup and water. let stand a few hours, and filter through talcum.

v.

Ammonium bromidegr.	960
Chlorofor mfl.dr.	2
Fluid extract of coniumfl.dr.	2
Tincture of henbanefl.dr.	4
Syrup of glucose	8
Water, enough to make fl. oz.	16

#### VI.

I.

Make powders, each containing

Pepsin, saccharated											
Charcoal	• •			•				*		·gr.	1/2
Magnesium carbonate											
Lactucarium	• •	•	•	•.	• •	•	٠	•	•	.gr.	16

### Syphilis Remedies.

The recommending of remedies for the use of syphilitics does not come within the province of the pharmacist. The formula below, known as the "Hot Springs Prescription," is given merely because of its more or less extended use. Other remedies which may prove useful are the "blood purifiers" containing potassium iodide.

Potassium iodidegr.	480
Iodinegr.	2
Mercuric chloridegr.	3
Compound tincture of gentian, fl.oz.	2
Fluid extract of sennafl.oz.	1
Compound syrup of sarsaparilla.fl.oz.	8
Water enough to make fl.oz.	16

### Throat Affections, Remedies for.

Under this heading will be mentioned such preparations as could not conveniently be classed under Cough and Cold Remedies.

Morphine sulphategr.	10
Ipecacgr.	
Gingergr.	
Tartaric acidgr.	30
Oil of anisegr.	
Sugarav.oz.	15

with the diluted alcohol, and add the be in very fine powder, add the oil, mix again, pass through a fine sieve, and convert

into a lozenge mass by adding a small amount | IV. of mucilage of acacia or of gum tragacanth, and then sufficient water. Roll the mass out and divide into lozenges of suitable size, spread these out on boards or trays in a warm place and when nearly dry turn them over and allow them to dry on the other side.

The above forms a good Expectorant Cough Lozenge.

### II.

Cubebsgr.	140
Pot assium chlorategr.	280
Extract of licoricegr.	150
Susrar av.oz.	16
Pine targr.	20

Mix the cubeb, potassium chlorate, and sugar, all in fine powder; add the powder, which may be either in powder or plastic form, then the tar, make into a mass like the preceding, divide into lozenges and dry as before.

These lozenges have enjoyed some reputation under the name of "Pine Tree Tar Lozenges." The licorice, cubeb and tar act as an expectorant and the potassium chlorate is intended to relieve soreness of the throat

### III

Fluid extract of pyrethrumm.	2/1
Pilocarpine hydrochlorate gr.	2160
Extract of licoricegr.	2
Glycerin	1
Sugar, enough to makegr.	20

This is sufficient for one lozenge, which should be prepared like the preceding.

These lozenges give great relief from the uncomfortable sensations of heat and dryness which characterize many acute and chronic affections of the mucous membrane of the mouth and throat. The lozenge should be allowed to dissolve in the mouth. and one used every two, three or four hours, as necessary. The addition of 2 grains of ammonium chloride will often be beneficial in sub-acute inflammatory conditions of the mucous lining of the respiratory tract, while in more chronic affections 2 or 3 | water, add the other ingredients, let stand for minims of the oleoresin of cubebs will serve 24 hours, and filter. This may be known as a good purpose.

Cubebsav.oz. Benzoic acidgr.	
Extract of licoriceav.oz.	
Tragacanthgr.	10
Morphine muriategr.	6
Sugar av.oz.	1
Oil of anisedrops	30
Currant jellyav.oz.	10

Mix all of the solids above, previously reduced to fine powder, add the oil and the jelly, form into a mass (by the addition of water or mucilage if necessary), roll this out like a thin pill pipe, and cut into troches weighing about 10 gr. each.

These lozenges are excellent for hoarseness and for coughs and colds.

Sodium salicylate.....fl.dr. 3 Fluid extract of cascara sagrada. .fl.dr. 2 Glycerin.....fl.dr. 2 Orange flower water, enough to make.....fl.oz. 2

Label: A teaspoonful every 3 or 4 hours. This is excellent for tonsilitis.

VI.

V.

Oil of peppermint	drops 8
Carbolic acid	fl.dr. 1
Alcohol	fl.dr. 2

Use 10 drops in a cup of warm water, morning and evening, as a gargle. This is an excellent remedy for quinsy.

### Tonics.

I.

A variety of preparations known by this title is grouped under this heading. Other tonic preparations may be found under the heading Bitters.

Solution of iron "protoxide"fl.oz.	2
Fluid extract of cinchonafl.oz.	4
Sodium phosphateav.oz.	1
Tincture of nux vomicafl.dr.	2
Fluid extract of sennafl.oz.	1
Water, hotfl.oz.	2
Simple elixir, enough to makefl.oz.	16

Dissolve the sodium phosphate in the " Iron Tonic Syrup."

200	
11	

	<u>_</u>
11.	vı
Fluid extract of gentian fl.oz. 1	
Fluid extract of dandelion,, fl.oz. 11/2	
Phosphoric acid, dilutedfl.dr. 10	
Glycerinfl.oz. 8 Sherry winefl.oz. 8	_
Sherry winefl.oz. 8 Simple syrupfl.oz. 4	To
Compound tincture of cardamom fl.dr. 6	
Mix and filter.	
III.	To
Tincture of cinchonafl.oz. 2	10
Compound tincture of gentian. fl.oz. 1	
Tincture of capsicumfl.dr. 1	pa
Fluid extract of hydrastisfl.dr. 2	the
Simple elixir, enough to make. fl.oz. 16	pel
Mix, let stand a few hours, and filter.	of
IV.	be
Soluble tincture of ginger	cal
(Part IV.)fl.oz. 4	wh
Compound tincture of gentianfl.oz. 2 Glycerite of hydrastisfl.dr. 2	con
Glycerite of hydrastisfl.dr. 2 Sugarav.oz. 2	wa
Alcohol	cai
Waterfl.oz. 5	ph
Mix, dissolve by agitation, and filter.	sti
This may be known as "Ginger Tonic."	sat
V	cu
Hops 4	sin
Dandelion $\dots$ $1\frac{1}{2}$	cei
Podophyllumav.oz. ½ Buchuav.oz. 1	
Water, boilinggal. 1	pre
Alcoholfl.oz. 16	ca
Mix the drugs, reduce to coarse powder,	eve
pour on the water, let stand for 12 hours,	kir
decant 7 pints of clear liquid and to this add	for
the alcohol.	I.
This preparation has been known as	1.
"Hop Tonic."	
VI.	
Cinchona 11/2	
Bitter orange peelav.oz. 11/2	
Wild cherry barkgr. 100	alc
Cinnamon	
Calamusgr. 30 Simple syrupfl.oz. 11	II.
Alcohol,	
Water, of each enough to make fl.oz. 32	
Reduce the solids to a coarse powder, and	
percolate with a menstruum consisting of 2	
volumes of alcohol and 1 volume of water	
until 21 fluidounces of percolate is obtained.	
Add the syrup, let stand a few days, then	Π
filter.	
This preparation may be known as "Cali-	
-	

saya Tonic."

#### VII.

Compound tincture of gentianfl.oz.	2
Syrup of coffeefl.oz.	8
Simple elixirfl.oz.	6

### Toe-Nail, Ingrowing.

Liquefied chloride of lime. Apply one drop at night.

### Toothache Remedies.

Formerly all toothache remedies were prepared in the liquid form-"toothache drops" they were termed. Several years ago, pills or pellets, each for one insertion into the cavity of the tooth, came into use. These have been succeeded lately by pencils or sticks, called "toothache wax" or "toothache gum," which have become very popular. These consist of a fatty body like yellow or white wax or spermaceti with which is incorporated carbolic acid, creosote, chloral hydrate, camphor, etc. This is then formed into small sticks or pencils, or else absorbent cotton is saturated with this mixture, and this is then cut into suitable pieces and formed into similar sticks. A formula for an odontalgic cement is also given.

Inasmuch as the public rarely asks for a proprietary toothache remedy, the pharmacist can always "push" his own article; he may even find it advantageous to have severa kinds of toothache remedies prepared ready for sale.

Morphinegr.	60
Acetic acidfl.dr.	2
Alcoholfl.oz.	3
Chloroformfl.oz.	7

Dissolve the alkaloid in the acid, add the alcohol, and then the chloroform.-H.

### II.

Camphorav.oz.	2
Oil of cajuputfl.oz.	4
Chloroformfl.oz.	5
Oil of clovefl.dr.	

Mix and dissolve by agitation.-H.

III.

Oil of clove	 •••	 	.fl.oz. 2
Spirit of ether			
Tincture of opium.	 	 	.fl.oz. 8
•			—н.

### HOUSEHOLD REMEDIES.

IV.	the second second
Chloral hydrate	av.oz. 1/2
Camphor	av. oz. 1/2
Morphine sulphate	gr. 8
Peppermint oil	fl.oz. 11
Rub the solids in a mortar u	intil liquefied
and add the oil.	
V	
Creosote	fl.oz. 2
Chloroform	
Alcohol	
Spirit of soap	
VL	
Morphine	mr Sto 6
Oil of peppermint	fl.dr. 14
Carbolic acid	fl.dr 2
Collodion	
VII.	
	av.oz. 1
Camphor Chloral hydrate	
Chloroform	
Ether	
Tincture of opium	· · · · · · · · · ·
Oil of thyme	
Oil of sassafras	
Alcohol, enough to make	
VIII.	1
Creosote	drops 60
Oil of cloves	
Oil of cinnamon	
Alcohol	···· I.02. 1

Directions: Put one drop on a pledget of absorbent cotton and apply.

### IX.

Camphor	gr.	60
Peru balsam	gr.	60
Extract of opium	gr.	60
Mastic	gr.	120
Chloroform		
x.	1	
White or yellow wax	.av.oz.	3
Venice turpentine	.av.oz.	1%
Mastic, powder	.av.oz.	3/2
Opium, powder	gr.	130
Chloral hydrate		

Melt the first three together, then add the other ingredients, and stir frequently while cooling.

#### XL.

Salicylic acidgr.	10
Opium powdergr.	5
Oil of clovegr.	10
Oil of cajuputgr.'	20
Masticgr.	20
Dragon's bloodgr.	20
Venice turpentinegr.	20
Yellow waxgr.	120

perature, roll out into little rods, cover with ceding instance.

wax paper or tinfoil, and preserve in well closed vials.

#### XII.

Iodol
Paraffin oilgr. 10
Venice turpentinegr. 10
Yellow waxgr. 65
Alkanet rootsufficient to color

Triturate together the iodol, venice turpentine, and paraffin oil, then add to the melted wax colored with the alkanet. Salol may be substituted for the iodol.

#### XIII.

Masticav.oz. 2	
Oil of clovefl.dr. 4	
Carbon bisulphidefl.oz. 5	
Amber, powderav.oz. 1	
Opium, powderav.oz. 1	
Tannin, powderav.oz.	1/2

Dissolve the mastic in the bisulphide of carbon, and add the oil of clove and the powders previously mixed.

#### XIV.

Paraffingr. 18	0
Burgundy pitch	30
Oil of clovesfl.dr.	1
Carbolic acidfl.dr.	1

Melt the paraffin and pitch together and add the other ingredients when nearly cold, and make mass into pills, cones or mix with cotton and cut into strips.

#### XV.

Oil of clovefl.dr. 2	
Carbolic acid, crystalav.oz. 6	
Yellow beeswaxav.oz. 1	

While still liquid immerse thin layers of absorbent cotton and when sufficiently cool roll them into the shape of rods. For use, snip off a little piece, warm it gently, and introduce into the hollow tooth.

#### XVI.

White wax or spermacetiav.c	
Carbolic acid, crystalav.c	DZ. 1/2
Chloral hydrate	z. 1

Aelt the fat at a gentle heat, add the acid and chloral, stir until dissolved, and im-Melt together and mix at a moderate tem- merse cotton in the mixture as in the pre-

. 7	۰.	T	
v	T	T	•

Cocaine hydrochlorate	gr.	16
Opium, powder	gr.	64
Menthol	gr.	16
Althæa, powdered	gr.	48
Mucilage of acaciasu	fficio	ent

Make into one-half grain pills and keep in well-stoppered vials. For use, one of these is to be inserted into the hollow tooth.—D.

#### XVIII.

Opium, powdergr.	15
Belladonna root, powdergr.	15
Pyrethrum root, powdergr.	15
Oil of clovedrops	8
Oil of cajuputdrops	8
Oil of sweet almondsdrops	8
Yellow waxgr.	20

After melting together and allowing to cool form the mass into 100 pills which are sprinkled over with clove powder and properly preserved.

#### XIX.

Opium, powdergr. 60
Pyrethrum root, powdergr. 30
Creosote sufficient to form a mass

Make into pellets weighing about one-half grain each.

### XX.

Tannin gr.	40
Opium, powdergr.	80
Ambergr.	80
Mastic	160
Oil of clove	40
Carbon disulphidefl.dr.	51/2

After dissolving the mastic in the carbon disulphide add the previously mixed powders.—D.

Chloroform may be substituted for the carbon disulphide, but the latter acts as an instantaneous analgesic, while its odor is marked by the clove oil.

This mixture should be inclosed in a wellstoppered wide-mouth bottle. For use, take out a small portion and insert into the carious teeth.

### Vermifuges.

Pharmacists are very frequently asked to recommend some remedy for the expulsion of worms in children. The various vermifuges are of different forms, such as syrup, solution, lozenge, powder, species and electuary. These may be entitled "Pleasant Worm Syrup,"

"Santonin Worm Lozenges," "Choose late Worm Syrup," "Tonic Vermifuge, "Ideal Worm Powders," etc. An almost universal ingredient of these preparations is santonin; other common ingredients are oi or fluid extract of wormseed and pink root These are usually combined with some purgative, such as castor oil, buckthorn, rhubarb, calomel, podophyllin, senna and jalap resin. Another addition sometimes made is some carminative like anise or fennel or the volatile oils of either of these.

The above described remedies are intended only for pin worms and lumbricoid worms. Tapeworms usually infest adult persons and require much different treatment. Formulas serviceable against the latter are also appended.

I.

Fluid extract of spigelia	.fl.oz.	5
Fluid extract of senna		
Oil of anise	drops	10
Oil of caraway		
Simple syrup	.fl.oz.	8

Dose, 1 or more teaspoonfuls at intervals until purging commences.

This formula is that of the old and familiar "compound fluid extract senna and spigelia," reduced one-half by the addition of syrup.

### II.

Santonica, fine powderav.oz.	1
Fluid extract of spigeliafl.oz.	
Fluid extract of sennafl.oz.	
Oil of chenopodiumdrops	
Oil of anisedrops	
Oil of carawaydrops	
Oil of fenneldrops	
Syrupy glucose, enough to make fl.oz.	16
IIL	

Fluid extract of spigeliafl.dr.	4
Fluid extract of sennafl.dr.	
Fluid extract of buckthorn fl.oz.	1
Santoningr.	40
Alcoholfl.oz.	4
Cacao, powderav.oz	. 1
Simple syrup, enough to make.fl.oz.	40

Make the cacao into a smooth paste with portion of the syrup, heat to boiling, alle to cool, dissolve the santonin in the alcob add the fluid extracts, then the chocol syrup and the remainder of the syrup, : mix the whole by agitation.

### HOUSEHOLD REMEDIES.

### IV.

Santoningr.	80
Alcoholfl.oz.	
Oil of chenopodiumfl.oz.	
Fluid extract of chenopodiumfl.dr.	4
Castor oilfl.oz.	24

Dissolve the santonin in the alcohol, add this solution to a mixture of the two oils, and to the whole add the fluid extract.

V. Powders may be prepared, each containing santonin, gr. 1, calomel, gr. 1, podophyllin, gr. 1-12 and sugar, gr. 30. The calomel may be omitted and the podophyllin increased to  $\frac{1}{6}$  gr., or either may be replaced by resin of jalap.

### VI.

Santonin......gr. 50 Sugar, fine powder.....av.oz. 4 Tragacanth, fine powder......gr. 50 Orange flower water.....sufficient

Triturate the santonin to fine powder, add the tragacanth and sugar, mix well, make into a mass with the water, and divide into 100 lozenges. These are the "troches of santonin" of the U. S. P. Plain water may be substituted for the orange flower water.

The dose for a child 1 year old is 1 lozenge night and morning; of 2 years, 2 lozenges; of 4 years, 3; of 8 years, 4; of 10 years or more, 5 to 7 lozenges; in all cases to be taken twice daily, and continuing until worms are evacuated.

VII. To the preceding mass may be added podophyllin, calomel or resin of jalap; they may be colored pink with solution of carmine, cochineal color, or tincture of cudbear; or in place of the latter, powdered cacao or chocolate may be added.

The lozenges may be flavored with anise, fennel, wintergreen, or other flavor, and the gum tragacanth may be replaced by acacia.

### VIII.

Spigelia																												
Manna																												
Senna.																												
Fennel	•	•	-	•	•	*	•	•	•	•	•	•	*	•	•	•	•	•	•	•	•	•	a	v.	oz	-	1	

Cut the spigelia and senna, bruise the fennel, mix, add the manna and reduce the whole to a uniformly coarse powder.

In using, the above amount is sufficient for 7 pints of infusion or "tea," of which

half a teacupful is to be given to a child 2 years old morning, noon and night before eating.

### IX.

Spigeliaav.oz.	6
Savinav.oz.	1
Senna	
Cream of tartarav.oz.	
Rhubarbav.oz.	
Fennelav.oz.	
Wormseedav.oz.	2

Mix and reduce to coarse powder.

### Extract of licorice pure or puri

1/2
2
21/2
1/2
2
2

Mix the first 3 substances and add the powders,-D.

The subjoined mixtures are intended for the destruction and expulsion of tapeworms:

### XI.

Oleoresin of male fern	drops 30
Pelletierine tannate	gr. 1
Glycerin	fl.dr. 4

The whole is to be taken in a liberal quantity of sweet milk immediately upon arising in the morning.

### XII.

Oleoresin of aspidiumgr. 1 Calomelgr.	
Divide into 16 capsules.	

Early in the morning, 1 capsule every 5 minutes, in a tablespoonful of sweetened water:

#### XIII.

The addition of the chloroform is said greatly to increase the efficacy of oleoresin of male fern. This is of practical value, as grave symptoms of poisoning have been observed after the ingestion of large doses of male fern. The following will prove of benefit:

Oleoresin of male fern	
Chloroformm. 40	
Castor oilfl.dr. 1	
Croton oildrops 3	

This is sufficient for one treatment.

### XIV.

Granatum, coarse powder	av.oz.	2
Water		
Castor oil	fl.oz.	1
Acacia, powder	av. oz.	1/2
Acacia, powder	fl. oz.	1

Mix the bark with 8 fluidounces of water, macerate for 10 hours, then heat on a water bath for 2 hours, express, heat the residue as before for 2 hours with 7 fluidounces of water, express again, mix the two liquids, evaporate them on a water bath to  $4\frac{1}{2}$  fluidounces, make an emulsion with this and the oil and gum, and finally add the syrup.—D.

An adult is to take one-half of this mixture upon arising, subsequently taking a cup of coffee or tea, and following in one-half hour with the remainder of the mixture.

#### XV.

Pumpkin seeds, deprived of the	
outer membraneav.c	oz. 1
Waterfl.c	lr. 1
Honey	z. 1

Beat the seed and water together in a mortar to a uniform paste, then add the honey gradually, mixing the whole well.—D.

The above is recommended for tapeworm in children. No previous fasting is required. In the morning upon arising, the child is to drink a glass of milk; follow this in 1 hour by one-half of the electuary, in 15 minutes the other half, and follow in another 15 minutes with almost a tablespoonful of castor oil.

#### Wart Eradicators.

Pharmacists are frequently called upon to recommend or offer some remedy for the eradication of the peculiar excrescences known as warts. These are peculiar in that sometimes a very simple remedy applied but once or twice will cause them to disappear and at other times they persist indefinitely in spite of all treatment.

Every one is familiar, of course, with the application of silver nitrate in sticks, concentrated nitric acid, creosote, carbolic acid, or salicylic acid in any of the forms of corn cures. Glacial, acetic and dichloracetic acid are frequently employed, while some add salicylic acid in the proportion of 1 in 16 to concentrated acetic acid. Another escharotic solution consists of chromic acid 1 part, water

5 parts. Unna recommends mercurial plaster containing 5 per cent of arsenic. It is also recommended to shave off the wart to the quick and then to apply a compress wet with a saturated solution of ammonium chloride. A corrosive collodion for warts consists of 1 part of mercuric chloride dissolved in 20 parts of collodion. Other applications are: Concentrated hydrochloric acid, solution of antimony chloride, solution of mercuric nitrate, potassium bichromate, arsenic oleate and copper oleate. Castor oil and oil of cinnamon are also useful. All of these remedies must be applied once or twice daily until the wart disappears. The outer hard, thick layer of cuticle should always be removed before applying anything whatever.

An ointment sometimes recommended is the following:

Verdigrisgr.	50
Savin, powdergr.	
Soap cerateav.oz.	

The following powder is said to be very effective:

Calomelgr.	30
Boric acidgr.	15
Salicylic acidgr.	5
Cinnabargr.	3

Rub into the wart 2 or 3 times a day.

In the case of multiple warts, where a large number appear within a short time, there is some constitutional derangement, and the patients are usually advised to take Fowler's solution in very small doses, or magnesium sulphate in 5 gr. doses 3 times daily. The following application has been recommended:

Sublimed sulphurgr.	
Glycerinfl.dr.	5
Acetic acidfl.dr.	1

Apply repeatedly to each wart, continuing the treatment for several days. The warts dry up and then drop off.

Children's warts, appearing principally on the hands, may be removed by applying during several days solution of soda or potassa, and then covering them with collodion containing tannin. The same treatment applies for common warts.

concentrated acetic acid. Another escharotic Erasmus Wilson considers the application solution consists of chromic acid 1 part, water of caustic potassa in stick form to be the

quickest and most reliable eradicator, one treatment being all that is usually required.

Warts appearing on the skin of elderly persons must be looked upon as suspicious (cancer) and should be shown to a reliable surgeon.

#### Worm Medicines.

See Vermifuges.

### Miscellaneous Remedies.

Under this heading are grouped remedies for such diseases as did not naturally fall into any special chapter:

Pain Dispeller:

Aromatic spirit of ammoniafl.oz.	1
Compound spirit of etherfl.oz.	1
Spirit of peppermintfl.oz.	1
Compound tincture of lavender fl.oz.	1
Spirit of camphorfl.oz.	1.
Tincture of capsicumfl.oz.	1
Tincture of opiumfl.oz.	1
Tincture of rhubarbfl.oz.	1
Alcoholfl.oz.	8
Water, enough to make fl.oz.	16

This is useful in diarrhoea, dysentery, cramps, etc., and may be known as "Pain Cure," "Pain Dispeller," "Carminative Balsam," "Pain Expeller," etc.

Corrosive sublimate ......gr.

Mix the bromine and alcohol, place the other ingredients in a mortar and add sufficient of the bromine-alcohol solution to dissolve them.

2

This has been recommended as an antidote to rattlesnake poisoning and is known as Bibron's antidote.

#### Poison Ivy:

The following has been recommended for poisoning by poison ivy:

Sodium sulphite......gr. 60 Glycerin .....fl.oz. ½ Camphor water, enough to make fl.oz. 4 Apply several times daily.

Boil Remedy:

The following are recommended for boils or furuncles:

### Salicylic acid ......gr. 120 Soap plaster .....av.oz. 2 Lead plaster .....av.oz. 1

# B.

Ichth	yol				•••			gт.	60
Resin	plaster	•••		••		• •		gr.	60
Lead	plaster	•••	••	•••	•••	••	•••	gr.	120

These are to be applied daily on a cloth. C. Furuncle Remedy:

Tincture of chloride of ironfl.oz.	1
Liquor potassii arsenitisfl.dr.	11/2
Aqua fl.oz.	8
m 1 1 1 1 1	

Take a fluidram after each meal.

Use, locally, camphorated carbolic acid and a poultice of linseed meal, when there is much inflammation. Also advise small doses of epsom salts to prevent constipation.

Remedy for Bruises:

Ammonium chlorideav.o	z. 1/2
Alcohol	z. 1/2
Waterfl.o	z. 5

Dilute acetic acid may be substituted for one-half the water and the alcohol may be replaced by 1 fluidounce of tincture of arnica.

This preparation is a valuable application for bruises or contusions; it is therefore of value in the treatment of ecchymotic conditions, such as "black eye." If applied at once and continuously for a time after the blow has been received, no discoloration will appear.

The following is also useful for bruises and "black eyes:"

e -	Potassium nitrategr. 15 Ammonium chloridegr. 30 Aromatic vinegarfl.dr. 4 Water, enough to makefl.oz. 8
	Insect Bite Remedy:
e s	Olive oilfl.oz. 1 Water of ammoniafl.oz. 1 Oil of turpentinefl.dr. $\frac{1}{2}$ Tincture of opiumfl.dr. $\frac{1}{2}$ The above is recommended as an appli-
r	cation to insect bites or stings.—H. See also Liniments and Ointments in Part II.
ź	Delirium Tremens:
s	Chloral hydrate
	Mix, dissolve and filter if necessary. This mixture is advised against delirium tremens

mixture is advised against delirium tremens or '' jim jams '' or the nervous condition bordering upon it.

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Croup Remedy:	Erysipelas:
Fluid extract of senegafl.dr. 2 Fluid extract of ipecacfl.dr. ½ Oxymel of squillfl.dr. 6 Tartar emeticgr. 1½ Simple syrupfl.oz. 4	The following are employed for erysipelas: I. Tannic acid
Teaspoonful doses of this are recommend- ed for croup.	Mix and dissolve. Apply once or twice daily.
Anaphrodisiac Pills: The following pills are used as anaphrodi- siacs or to repress sexual excitement. Each pill should contain:	II. Sodium salicylategr. 160 Sodium bicarbonategr. 80 Water, boilingfl.oz. 16 Apply upon compresses.
Camphor	Castor Oil Substitute: The following preparation has considera- ble sale under such names as "Castor Oil Substitute," "Castroilina," "Castorol," "Castorbena," etc:
Brown-Sequard's Anti-Epileptic Mixture: This mixture is in rather extended use, but various formulas for it have appeared. The following may be employed:	Senna       av.oz.       8         Pumpkin seed       av.oz.       3         Anise       av.oz.       1/2         Wormseed, German       av.oz.       1/2         Rochelle salt       av.oz.       2         Sodium bicarbonate       av.oz.       1
I. Sodium bromide	Sugar
Mix, dissolve and filter.	pour off the liquid, upon the dregs pour 16
11.         Potassium bromide	fluidounces of hot water, macerate for 1 hour, pour off the liquid, express the residue in a cloth, mix the two liquids, evaporate at a gentle heat to 32 fluidounces, add the soda and salts, dissolve by agitation, add the oils previously dissolved in the alcohol, and per-
Prepare like the preceding.	colate the whole through the sugar-
Brown-Sequard's Neuralgic Pills.	Gross' Neuralgic Pills.
Each pill contains:         Extract of hyoscyamusgr.         Extract of coniumgr.         Extract of Ignatia beangr.         Extract of of opiumgr.         Extract of conitegr.         Extract of conitegr.         Extract of conitegr.         Extract of conitegr.         Extract of strannoniumgr.         Extract of belladonnagr.	Each pill contains: Quinine sulphategr. 2 Morphine sulphategr. Strychninegr. Arsenious acidgr. to Extract of aconite leavesgr. ''Hot Drops,'' or ''No. 6.'' Tincture of capsicumfl.oz. 8 Tincture of myrrhfl.oz. 6 Mix and niter.

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### PART III.

# **PROPRIETARY PREPARATIONS.**

This department gave rise, in the first edition of the work, to some criticism based upon the argument that, inasmuch as the formulas given in connection with the designated preparations must, by reason of the extreme difficulty, if not the impossibility, of determining exactly the composition of many organic compounds, in numerous instances be more or less conjectural, that therefore all reference to them by their trade titles should be omitted.

This argument wholly mistakes the purpose of this Part and the nature of the formulas given.

The editors hold it to be the paramount duty of every pharmacist to know everything possible concerning the constituents of everything he may be called upon to dispense or sell. In this way only can he discharge his obligations in his professional relations to the physical welfare of his patrons. Secrecy and monopoly have, by the humane command of the professions, no legitimate place in medical science.

The formulas in this department are, therefore, primarily designed not to furnish information for duplicating the various preparations, but to give pharmacists and physicians an approximate idea of their composition and properties. Absolute fidelity to the originals in all details was for this reason not deemed vital, and it should, therefore, be understood that the formulas, unless otherwise specified in each case, are for similar and not for identical preparations.

The reader should bear in mind that the titles of preparations in this department are, in nearly every instance, presumptively the property of their respective manufacturers, and can be legally used (until a court decision may otherwise decree) only to designate the original compounds. Competing preparations made by the retail druggist or others have no right in law or morals to valid trade-marked names; no self-respecting druggist will fraudulently substitute his own products when another's is clearly indicated by its specific title. It is, however, the right and the duty of every pharmacist to encourage the use of his own products on their own merits, and in accordance with the recognized principles of honest and open competition.

The source of our information is given in most cases and is believed to be reliable, but should any formula, by reason of any incorrect statement or inference, be regarded as unjust to the original preparation or as impairing its reputation, the correction will be cheerfully made on receipt of the requisite information.

#### **REFERENCE ABBREVIATIONS.**

A. DrAmerican Druggist
A. J. PAmerican Journal of Pharmacy
Apoth. ZtgApotheke Zeitung
B. & C. DrBritish and Colonial Druggist
Can. DrCanadian Druggist
D. CDruggists' Circular
Era FormEra Formulary
Fenner's FormFenner's Formulary
Ind. PhIndiana Pharmacist
Kilner's FormKilner's Formulary
Nat. DrNational Druggist
N. INew Idea
PharmPharmacist
Ph. CentralPharmaceutische Centralblatt
Ph. EraPharmaceutical Era
Ph. PostPharmaceutische Post
Ph. RecPharmaceutical Record
Ph. RundschPharmaceutische Rundschau
Ph. ZtgPharmaceutische Zeitung
Reg. PhRegistered Pharmacist
W. DWestern Druggist

#### Abernethy's Pills.

Each pill contains:	
Socotrine aloesgr.	2
Extract of henbanegr.	2
Blue massgr.	1
Ipecacgr.	ŧ
-Fenner's and Beasley's Formularie	s.

#### Acetic Cantharidal Vesicant.

Cantharides, freshly powdered .. av oz. 8 Acetic ether.....sufficient

names; no self-respecting druggist will fraudulently substitute his own products when firmly in a percolator, add more menstruum, macerate for a few hours, and then percolate slowly until 16 fluidounces of liquid have been obtained.

Liquor Epispasticus or Blistering Liquid of the British pharmacopeia is one-half the strength of the above.—Pharm.

### Actina.

Various formulas have been offered for similar preparations as follows:

II

Mentholgr.	60
Oil of mustardfl.dr.	
Alcoholm.	30
Etherfl.dr.	
Sponge, enough to makeoz.	1
-Prof. F. B. Tiffany, K.	C.

Mentholgr.	60
Oil of mustardfl.dr.	2
Hydrobromic etherfl.dr.	1
Sponge, enough to makeoz.	1

### Adhœsol.

Copal parts	70
Benzoinparts	6
Toluparts	6
Oil of thymeparts	4
Alphanaphtholparts	6
Ether	
- Merck's Bulle	tin.

### Albolene.

According to manufacturers' statements relative to albolene and liquid albolene, these are presumably purified petrolatum and purified liquid petrolatum respectively.

#### Aletris Cordial.

### I.

What purports to be a similar preparation is made as follows:

Stargrassav.oz.	
Blue cohosh av.oz.	1
Cramp bark av.oz.	1
Helonias or false unicorn av.oz.	1
Simple syrupfl.oz.	2
Alcoholfl.oz.	2
Sherry wine, enough to makefl.oz. 1	6

Extract the drugs with the 16 fluidounces of wine to which the alcohol has been added, and obtain 14 fluidounces of liquid. Mix this with the syrup and filter if necessary.

#### II.

The following will make a satisfactory similar preparation (Fenner's Form.):

Unicorn root (aletris)av.oz.	2
Catnipav.oz.	1
Cramp barkav.oz.	1
Mitchellaav.oz.	2
Blue cohoshav.cz.	3/2
	34
Orange peelav.oz.	4
Carawaygr.	
Sugar	
Diluted alcoholfl.oz.	20
Watersufficie	nt

Mix the drugs, grind to coarse powder, moisten the diluted alcohol, pack in a percolator, pass the remainder of the diluted alcohol through the drug, and then follow with water until 20 fluidounces of percolate are obtained. In this dissolve the sugar and to the solution add enough water to make 32 fluidounces.

### Allcock's Porous Plaster.

Hager states it contains India rubber, Burgundy pitch, olibanum, myrrh and a small amount of oil of turpentine.

#### Allen's Hair Restorer.

Sulphur	gr. 160
Lead acetate	gr. 230
Glycerin	
Water (perfumed)	
	-Wittstein.

### Ammonamide. (Ammoniated Phenylacetamide.)

Probably similar to Ammonol, which see.

Ammonol (Ammoniated Phenylacetamid).

This is claimed to be a derivative of the amido benzene series— $C_8H_8NH_2$ —containing ammonia in an active form. Dr. Eccles says the following mixture will give like medicinal results:

Acetanilidpar	ts 4
Sodium bicarbonatepar	ts 2
Ammonium carbonatepa	rt 1

#### Amylocarbol.

Carbolic acid parts	9
Green soapparts	150
Amyl alcoholparts	160
Water, enough to make, parts	
-Cobl	a tita

#### Anaspaline.

Petrolatum			à		×	à		÷				.part 1	
Wool fat										•		parts 3	1
											-	-A. D.	

#### Anæstheto Obtundent.

A dental anæsthetic containing about 1 art of cocaine hydrochlorate in 80 of mixure, also carbolic acid, camphor, glycerin, ils of cinnamon and citronella, and probably cohol.—Sadtler.

#### Analgesin.

This is said to contain ammonium chloride, «affeine, sodium bicarbonate and acetanilid.

It should not be confounded with analgesine, which is the French name for antipyrine.

#### Anderson's Pills.

I.

Barbadoes aloes with some jalap and oil of anise.

II.

loes	arts 8
fyrrhpa	
Saffron	oart 1

Mix and make into a mass with water and oil, and divide into 4-grain pills. This is said to be the original formula.

#### Anesthyl.

Ethyl cl	h <b>lori</b> de	• • •		 	••	 •	parts 5	
Methyl	chloride	• • •	•••	 ••	••	 •	.part 1	

#### Angier's Petroleum Emulsion.

This is advertised to contain in each ounce 33½ per cent of purified petroleum and 12 grains of the salts of lime and soda. The following will yield a preparation with these essential ingredients in like proportions:

Liquid petrolatumfl.oz.	16
Acacia, powderav.oz.	8
Glycerin	4
Calcium hypophosphitegr.	288
Sodium hypophosphitegr.	288
Water, enough to makefl.oz.	48

Add the acacia to the petrolatum and mix thoroughly in a large mortar, then add 16 fluidounces of water (all at once) and rub briskly until the emulsion is formed. Dissolve the hypophosphites in 8 fluidounces of water, to which add the glycerin; then add all to the emulsion and rub well together, adding any water necessary to make up the measure of 8 pints of finished product.

#### Angostura Bitters.

-	
Angostura barkav.oz.	4
Bitter orange peelav.oz.	2
Canada snake rootav.oz.	2
Cinchonaav.oz.	2
Serpentariaav.oz.	2
Gentianav.oz.	1
Galangalav.oz.	1
Calamusav.oz.	1
Cardamomav.oz.	1/2
Cinnamonav.oz.	X
Clovesav.oz.	X
Coriander av.oz.	- ¥
Mace	*****
Alkanet rootav.oz.	14
Alcoholfl.oz.	24
Waterfl.oz.	16

Mix the drugs, reduce to fine powder, and extract with a mixture of the alcohol and water.

This makes an extract from which the bitters may be prepared by mixing 1 fluidounce of the extract with 24 fluidounces of alcohol, 40 of water, and 1 fluidounce of glycerin.— Fenner's Formulary.

#### Antidiabetin.

This is said to be a mixture of saccharin and mannite. It is marketed in three strengths—Nos. 70, 10 and 1—these numbers indicating the ratio in sweetening power to cane sugar.—Ph. Ztg.

#### Antidiphtherikon.

Oil of birch	parts 5
Oil of beech	parts 8
Alcohol	
Potassium carbonate	
Potassium sulphide	
-	-Coblentz.

#### Antikamnia.

This is claimed to be a "combination of coal-tar derivatives of the series  $C_N$   $H_{2N-6}$ ." One chemist has reported the following composition arrived at by analysis:

Acetanilid	parts 47
Sodium bicarbonate	parts 50
Tartaric acid	parts 3
	—A. J. P.

Another chemist, Goldman, however, gives the following as the composition:

Acetanilid		
Sodium bicarbonate	 parts	2
Caffeine	 part	1

# Antikol (Anti calor).

The manufacturers state that it contains acetanilid, caffeine citrate, quinine bisulphate, and sodium bicarbonate, each 10 grains, containing 1 grain of caffeine citrate and 1-10 grain quinine bisulphate.

A writer in the Pharmaceutische Rundschau gives the following as the result of an analysis:

Acetanilid						
Sodium bicarbonate						
Tartaric acid		÷				.parts 3

#### Antikrinin.

See Perl's Antikrinin.

#### Arophene.

This contains about 1½ per cent of cocaine hydrochlorate, also carbolic acid, chloral, glycerin, oil of rose and probably alcohol. It is used as a dental anæsthetic.—Sadtler.

Arsenauro. (Solution of Bromide of Gold and Arsenic: Barclay.)

This, the manufacturers claim, contains, in every 10 drops, 1-32 grain of gold bromide and 1-32 grain of arsenic bromide.

#### Aubergier's Syrup of Lactucarium.

According to Procter, the following yields similar results:

Lactucarium, Germangr.	60
Sugargr.	120
Citric acid, powdergr.	15
Orange flower waterfl.oz.	
Simple syrupfl.oz.	18
Diluted alcohol,	

Water.....of each, sufficient

Triturate the lactucarium with the sugar until reduced to powder. Put the mixture in a small funnel, and pour on diluted alcohol until the drug is exhausted or until 2½ fluidounces of percolate are obtained. Evaporate this to one-half fluidounce and add it to the syrup previously heated to boiling. Continue the ebullition slowly until the liquid measures 17½ fluidounces, add the citric acid, dissolve, strain, allow to cool, and add the orange flower water.

#### Ayer's (J. C.) Cathartic Pills.

Each pill is said to weigh nearly 4 gr. and consists of aloes, compound extract of colocynth, gamboge, capsicum and oil of peppermint, —Hager.

#### Ayer's (J. C.) Cherry Pectoral.

Syrup of wild cherry	fl.dr. 6
Syrup of squill	fl.dr. 3
Tincture of bloodroot	fl.dr. 2
Sweet spirit of nitre	fl.dr. 2
Wine of antimony	fl.dr. 3
Wine of ipecac	fl.dr. 3
Simple syrup	
Morphine acetate	
Spirit of bitter almond	fi.dr. 1

N. I

#### Ayer's (J. C.) Hair Vigor.

	Lead acetate	parts 3
1	Sulphur	
	Glycerin	
	Water	parts 80
	-Popular Hygienic	ournal.

#### Ayer's (J. C.) Sarsaparilla.

Fluid extract of sarsaparillafl.oz.	
Fluid extract of stillingiafl.dr.	21/2
Fluid extract yellow dock fl.oz.	3
Fluid extract podophyllumfl.dr.	2%
Sugar av.oz.	1
Potassium iodidegr.	90
Iron iodidegr.	10
-Phar	m.

#### Ayer's Recamier Cream.

According to N. I., its formula is similar to this:

Zinc oxide		av. oz.	2
Glycerin		fl.dr.	61/2
Water			
Spirit of rose (4	fl.dr. to	16 fl.oz.) fl.dr.	1

Triturate together until a perfectly smooth homogeneous mixture results.

In addition to the above, it is said to contain a small amount of corrosive sublimate.

#### Ayer's Recamier Moth and Freckle Lotion.

This is said to contain corrosive sublimate dissolved in almond emulsion.-N. I.

Ayer's Recamier Powder.

Contains arrow root and zinc oxide .- N. I.

Ayer's Recamier Soap.

This is similar to ordinary toilet soap .- N. I.

#### Ayer's Vita Nuova.

Said to be port wine containing a small amount of cocaine.-N. I.

#### Barr's Dental Anæsthetic.

This is an alcoholic solution of oils of clove and peppermint.—Sadtler.

# Barry's Tricopherous.

According to N. I. a substantially similar preparation is made as follows:

Castor oil	fl.oz. 1
Alcohol	
Oil of lavender	drops 5
Oil of bergamot	
Color pink with alkanet root	-

#### Beckwith's Hog Cholera Remedy.

This, according to a patent specification, consists of equal parts of mandrake, sulphur, sodium bicarbonate, charred coffee and potassium chlorate.

# Beecham's Pills.

Aloesgr.	480
Rhubarbgr.	
Sodium sulphategr.	
Saffron, truegr.	
—Ind.	

Make into 3 gr. pills.

# Begg's Ague Pills.

Each pill contains	
Quinine sulphategr.	3⁄8
Cinchonine sulphategr.	4
Rhubarbgr.	
With a little flavoringN. I.	

# Bejean's Gout Cure.

The formula is said to be as follows:

Sodium salicy lategr.	60 60
Potassium iodidegr. Extract of gentiangr.	75
Alcoholfl.oz. Oil of wintergreenfl.dr.	
Waterfl.oz.	87

#### Benzothymol.

According to the statement of composition by the manufacturers, this contains about the same essential ingredients as Lister's Antiseptic Solution, Part I.

#### Big G.

The following was contributed to the D. C. as making a preparation similar in appearance and effect:

Berberine hydrochlorategr.	15
Zinc acetategr.	15
Glycerinfl.dr.	
Waterfl.oz.	

#### Birney's Catarrh Powder.

Cocaine hydrochlorategr.	19
Magnesium carbonategr.	18
Powdered peppermint leavesgr.	5
Sugar of milk, enough to makeoz.	1
Divide into 4 equal parts and put into	2-dr.
rials.—Dr. Eccles.	

# Bishop's Granular Effervescent Citrate of Magnesia.

This contains a mixture of sodium bicarbonate and tartaric acid.—Wittstein.

#### Blancard's Pills.

These are pills of iodide of iron.—Landerer.

#### Blatta Insect Powder.

I.		
Persian insect powder	av.oz.	8
Borax	av.oz.	8
Sulphur	av.oz.	4
Oil of eucalyptus	.fl.dr.	2
II.		
Persian insect flowers	av.oz.	8
Borax	av.oz.	8
Sulphur	av.oz.	4
Eucalyptus leaves		
Mix and reduce to fine powder.		

#### Boerhave's Bitters.

Aloesgr.	180
Cinnamonav.oz.	1
Galangalav.oz.	1
Zedoaryav.oz.	1
Angelica av.oz.	1
Clovesav.oz.	1
Gentianav.oz.	1
Quassia, cutav.oz.	1
Waterfl.oz.	9
Alcoholfl.oz.	6
Sugar	- 3
–Ha	ger.

#### Boonekamp Bitters.

Socotrine aloesav.oz. 8	
Myrth av.oz. 4	
Galangalav.oz. 4	
Saffronav.oz. 4	
Clovesav.oz. 1	
Wormwoodav.oz. 1	
Gentianav.oz. 4	
Rhubarb	
Turmericav.oz. 4	
Agaricav.oz. 8	
Cinnamonav.oz.	1/2
Fennel	
Alcohol	
Water	

In the alcohol, before it is mixed with the water, dissolve:

Oil of	wormwood.	 		. m.	90
Oil of	fennel	 <b></b>	<i>.</i> .	.m.	90
Oil of	curled mint	 	<b></b> .	. m.	50
			-	-A.	D.

#### Borol.

This is a fused mixture of boric acid and sodium bisulphate.—Ph. Central.

#### Borolyptol.

Said to be a combination of 5 per cent of aceto-boro-glyceride, 0.1 per cent of formaldehyde, and pinus pumilio, eucalyptus, myrrh, storax, benzoin. The following may yield a preparation of similar composition:

Glyceride of boroglycerin, U.S.Pdr.	
Benzoic acid	
Oil of eucalyptusm.	15
Oil of pinus pumiliom.	
Formaldehyde solutionfl.dr.	2
Water, distilledfl.oz.	16
lanaral	

# Borosol.

This is a colorless liquid containing, according to various analyses, aluminium tartrate, boric acid, salicylic acid, and free tartaric acid in aqueous solution.—Coblentz. Borosaly1.

This is said to be similar:

Boric acidp	arts 25
Salicylic acidp	arts 82
Watersu	
Triturate the acids with a small	quantity

of water to a smooth paste, dry and reduce to powder.

# Bor-Salicylate.

Appears to be made by triturating together 5 parts of sodium salicylate with 4 of boric acid and a small amount of water, drying and powdering.—Coblentz.

### Boschee's German Syrup.

According to N. I., the following is similar:

Oil of tar	.fl.dr.	1
Fluid extract of wild cherry	.fl.dr.	6
Fluid extract of ipecac	.fl.dr.	4
Tincture of opium	. fl. dr.	4
Water		
Sugar	av.oz.	14
Magnesium carbonate	gr.	180

Rub the oil thoroughly with the magnesia in a mortar; mix the fluid extracts with the water, and triturate with the mixture in the mortar; filter and dissolve in the liquid the sugar without heat, and add the tincture.

#### Bradycrotine.

According to N. I., the following furnishes a preparation approximating the original:

Caffeine, alkaloidgr. 6
Potassium bromidegr. 20
Sodium bromidegr. 20
Simple syrupfl.dr. 3
Alcohol
Port wine, enough to makefl.dr. 13
Caramelenough to color

#### Brandreth's Pills.

Compound extract of colocynthgr. Aloesgr.	
Gamboge gr. Castile soap gr. Oil of peppermint drops Oil of cinnamon drops	45 30 2

Glycerin and alcohol to make 100 pills.— Ph. Rundsch.

## Brassicon.

Oil of peppermint	∴fl.dr.	1
Camphor		
Ether	fl.dr.	214
Alcohol	fl.dr.	7′=
Essential oil of mustard	drops	12
—Suddeutsche	Apoth. 2	Ztg.

#### Bromidia.

According to the manufacturers, each fluidram contains 15 grains each of pure chloral hydrate and purified potassium bromide, and ½ grain each of genuine imported extract of cannabis indica and hyoscyamus. The formula below furnishes a preparation containing essentially the same ingredients in about the same proportions:

Extract of cannabis indicagr.	16
Extract of henbanegr.	16
Chloral hydrateav.oz.	
Potassium bromideav.oz.	41/2
Saccharingr.	2
Water, enough to makefl.oz.	16
Caramel,	

Pumice, powder.....of each, sufficient

Triturate the extracts with the pumice to powder, dissolve the chioral, saccharin and potassium bromide in a portion of the water, filter this solution through a filter containing the powder, pass the remainder of the water through the filter and color the liquid with caramel.

#### Bromophtharin.

Said to be a mixture of zinc oxide, calcium oxide, carbonate calcium, sodium sulphate, and sand.—Rundsch.

#### Bromo-Seltzer.

The following may yield a similar preparation:

Acetanilidav.oz.	1
Tartaric acidav.oz.	24
Scdium bicarbonateav.oz.	2%
Potassium bromideav.oz.	1
Sugarav.oz.	2.

# Bronchiline.

The following has like ingredients in practically the same proportions as are claimed by the manufacturers for the original (N. I.):

Mulleingr.	64
Hoarhoundgr.	64
Senegagr.	64
Ipecacgr.	64
Sanguinariagr.	64
White pinegr.	64
Wild cherrygr.	256
Chloroformfl.dr.	1
Sugarav.oz.	14
Tar water.	••
Alcohol,of each, suffic	ient

Mix the drugs, grind to coarse powder, and percolate with a mixture of 3 volumes

of alcohol and 8 of tar water, until 8 fluidounces of liquid are obtained. Percolate this through the sugar, adding enough tar water through the percolator to make the percolate measure 16 fluidounces, and to the latter add the chloroform.

# Brown's Male Fern Vermifuge.

The following makes a very similar preparation (N. I.):

Fluid extract of male fern	.fl.oz. 3
Simple syrup	.fl.oz. 5
Oil of wintergreen	drop 1

#### Brown's Bronchial Troches.

This makes a good preparation of the	kind:
Extract of coniumav.oz.	1/2
Extract of coniumav.oz. Acacia, powderav.oz.	2
Cubeb, powder av.oz.	2
Extract of licorice, powderav.oz.	8
Sugar, powderav.oz.	
Oil of peppermintm.	3

Make into a mass with water. Mix thoroughly and divide into lozenges of about 30 grains each.

Some formulas do not mention the oil of peppermint.—W. D.

#### Bucklen's Arnica Salve.

Extract of arnica	av.oz. 2
Resin cerate	av.oz. 16
Petrolatum	av.oz. 4
Raisins, seedless	av.oz. 16
Fine-cut tobacco	av.oz. 1
Water	sufficient

Boil the raisins and tobacco in 32 fluidounces of water until they are exhausted; express the liquid and evaporate down to 8 av.ounces. Soften extract of arnica with some hot water, mix the preceding liquid

with it, add this to the resin cerate, and petrolatum previously melted together.— Nat. Dr.

# Bumsted's Gleet Cure.

The following is a favorite pre-	scription:
Zinc sulphate	
Extract of opium, aqueous	gr. 60
Glycerite of hydrastis	fl.dr. 1
Glycerin	
Water	fl.oz. 4
	W. D.

# Burnett's Cocoaine.

A similar preparation is as follows: Cocoanut oil.....av.oz. 4 Cologne water.....fl.oz. 4 --W. D.

#### Cactus or Cactine Pills.

An extolled proprietary preparation is claimed to represent in each pill the "active proximate principle of the cactus grandiflora." As neither a process for its isolation or preparation nor a test for identity appears in any standard work, the existence of this active principle in an isolated state has been questioned. Cactus or Cactine Pills may be prepared by saturating homœopathic sugar globules with the concentrated tincture of cactus grandiflora (the so-called green drug fluid extract) and the alcohol removed by drying in the air.

#### Calisaya La Rilla.

The following is said (A. D.) to afford a satisfactory compound of similar composition:

Calisaya, powder	gr.	640
Lime, calcined, powder	gr.	480
Glycerin		
Hydrochloric acid		
Simple syrup	fl.oz.	7
Oil of orange	fl.dr.	*
Oil of lemon	drops	10
Oil of coriander		
Water,	•	
Alcohol of ea	ch, suffic	ient
Fuller's earth		240

Fuller's earth.....gr. 240 Mix the calisaya and lime intimately, add

3½ fluidounces of water, stir well and let dry slowly. Percolate with a mixture of the acid and alcohol, adding sufficient alcohol to bring the bulk up to 4 fluidounces. To this add the oils, and, after shaking thoroughly, the glycerin syrup and sufficient water to make 16 fluidounces; finally add the fuller's earth, shake well and filter.

# Calolactose.

The following is the composition according to the manufacturers:

Calomelpart 1	
Bismuth subnitratepart 1	
Milk sugarparts 8	

It is important that the ingredients be subjected to prolonged trituration.

#### Camphoid.

Collodion	part 1
Camphor	
Absolute alcohol	part 1

#### Campho-Phenique.

Claimed to be a chemical combination of phenol and camphor.

#### Carbolic Smoke Ball.

This is composed of licorice root, flour, white hellebore and some tarry body having the odor of carbclic acid.—N. I.

#### Carter's Little Liver Pills.

The following is said by the N. I. to make a similar preparation:

Podophyllingr. 1	
Aloes, socotrinegr. 8	
Mucilage of acaciasufficient	

Mix, divide into 12 pills and coat with sugar.

The entire 12 pills weigh about 71/2 gr.

# Cascara Cordial.

Cascara sagradaav.oz.	3
Berberis aquifoliumgr.	525
Diluted alcoholav.oz.	7
Coriander av oz.	1/2
Angelica,gr.	25´¯
Oil of anisedrops	
Oil of orangedrops	2
Granulated sugarav.oz.	834
Fluid extract of licoricegr.	180
Tincture of cudbearsuffic	
Water, sufficient to makefl.oz.	32

• Mix a decoction of the cascara and water at 212 deg. F. and filter, then dissolve the sugar in resulting liquid. Pack the coriander, angelica and berberis (in coarse powder) in a percolator, and displace with the alcohol, in which the oils have previously been dissolved. Lastly mix the cascara solution, the aromatic tincture and the tincture of cudbear together, and add the fluid extract of licorice.

#### Castoria.

According to the statements of composition made by the manufacturers, the following contains like essential ingredients:

Fluid extract of wormseedfl.oz.	114
Fluid extract of pumpkin seed, fl oz.	1
Fluid extract of sennafl.oz.	1
Fluid extract of rhubarbfl.dr.	2
Potassium carbona <sup>•</sup> egr.	60
Rochelle saltgr.	720
Oil of peppermintdrop	1
Oil of anisedrops	2
Oil of wintergreendrops	5
Alcoholfl.oz.	1
Sugarav.oz.	11
Water, enough to makefl.oz.	16

Mix the fluid extracts of wormseed and pumpkin seed with 4½ fluidounces of water, clarify by filtering through purified talcum, and add enough water through the filter to make filtrate measure 7 fluidounces. To this add the sugar, Rochelle salt and potassium carbonate, dissolve by the aid of gentle heat, add the fluid extracts of senna and rhubarb, and the oils dissolved in the alcohol, and finally enough water, if necessary, to make 16 fluidounces. Celerina.

See Compound Elixir of Celery, Part I, which contains like essential ingredients as are claimed for the original, which are 5 grains each of celery, coca, kola, viburnum in each teaspoonful, together with aromatics.

#### Centaur Liniment.

The following is said (N. I.) to make a similar preparation:

	I. For man:	
	Oil of pennyroyalfl dr.	- 4
	Oil of thyme (white) fl dr.	2
	Oil of turpentinefl.dr.	2
	Soap gr.	130
	Caustic sodagr.	10
	Water. enough to makefl.oz.	16
	II. For beast:	
	Oil of spearmintfl.dr.	1
I	Oil of mustardm.	15
I		2
	Oil of turpentinefl.dr.	Ĩ
	Oil of amber, crudefl.dr.	4
	Black oilfl.dr.	
	Soapgr.	10
	Caustic sodagr.	
	Water, enough to makefl.oz.	16
	Chamberlain's Relief.	
	Tircture of capsicumfl.o	)z. 1
	Spirit of camphorfl.c	
	Tincture of guaiacfl.c	ir. 8
	Coloring	cient
	-J. J. Pier	500.

#### Chapman's Alkaline Powder.

Sodium bicarbonate.....av.oz. 16 · Sodium phosphate, dried.....av.oz. 8

#### Chapman's Internal Disinfectant.

This appears to contain sugar.-Eccles.

# Chevalier's Life for the Hair.

Lead sulphidegr.	10
Iron sulphidegr.	1
Lac sulphurgr.	19
Glycerinfl.oz.	2
Waterfl.oz.	5

Flavor with rosemary and rose geranium.— Piper.

#### Chlor-Lactated Elixir of Pepsin

According to the statements of the manufacturers regarding its composition, this is similar to Compound Elixir of Pepsin, Part I.

## Chlor-Lactated Pepsin Powder.

According to the statements of the manufacturers regarding composition, this is similar to Compound Powder of Pepsin, Part I.

#### Chlorobrom.

A mixture of equal parts of chloralamid and potassium bromide in solution.

#### Chlorol.

Alis is said (Arch. Med. Belge) to have the following composition:

Water	parts 1000
Copper sulphate	.parts 3
Hydrochloric acid	part 1
Sodium chloride	part 1
Mercuric chloride	part 1

The sodium chloride is added to render the solution more stable; the hydrochloric acid to prevent the decomposition of the corrosive sublimate in the presence of albuminoid matter; and the copper sulphate for its vomitive effects—in case the chlorol should be taken internally by mistake.

#### Chlorolin.

A solution consisting chiefly of mono and tri-chlorphenols.

#### Chloryl.

See Anesthyl.

# Churchill's Syrup.

Compound syrup of hypophosphites.

#### Christadoro's Hair Dye.

No. 1 contains 60 gr. of pyrogallic acid dissolved in 1 fluidram of alcohol and 4 fluidounces of distilled water.

No. 2 consists of 1 av.oz. of silver nitrate dissolved in 1 fluidounce of distilled water and 1 fluidounce of concentrated ammonia to which is added  $\frac{1}{2}$  av.oz. of gum arabic cissolved in 3 fluidounces of distilled water.— Era Form.

# Clark's Blood Mixture.

Potassium iodide	дт. 128
Spirit of chloroform	
Solution of potassa	
Water	
Caramel	sufficient to color
	D. C.

#### Coaline Headache Powders.

Similar powders are made as follows:

Antipyrine	<b> </b>	• • • •	gr. 60
	omide		
Sugar			gr. 300

Mix and divide into 12 powders.

# Cobb's Pills.

Extract of	henbanegr.	30
	coniumgr.	
Extract of	colocynthgr.	40
Extract of	nux vomicagr.	4

Mix, make a mass and divide into thirty pills.—Contributed to D. C.

#### Coddington's Asthma Powder.

A similar preparation may be made as follows (N. I.)

Potassium nitrate	.av.oz. 1	
Anise	.av.oz. 1	
Stramonium:	.av.oz. 1	
Lobelia	.av.oz. 1	

#### Coe's Dyspepsia Cure.

Rhubarb, powdergr.	120
Fluid extract of gentian fl.dr.	
Peppermint waterfl.dr.	
Sodium bicarbonategr.	

#### Collins' Disinfecting Powder.

Chlorinated	lime,	dry	. parts 2
Burnt alum			part 1
			—N. I.

#### Condy's Fluid.

Potassium permanganategr. Distilled water	
—N.	I.

# Compound Lithia Tablets.

Calculating from the statement of composition furnished by the manufacturers, the following mixture may furnish a similar result:

Citric acidgr.	1,385
Lithium carbonate gr.	320
Sodium bicarbonategr.	315
Potassium carbonategr.	550
Talcum, purified gr	00
Make into 100 tablets.	

# Conklin's Salve.

Resin .												
Yellow	wa	x.		*							.av.oz.	1
Mutton	su	et.	 								.av.oz.	1

#### Corassa Compound.-Kilner's Form.

Sugar, powdergr.	185
Gentian, powdergr.	55
Licorice, powdergr.	55
Sodium bicarbonategr.	64
Cochineal, powdergr.	9
-A B Lvc	ne

#### Coudray's Eau de Quinine.

Tincture of cinchonafl.oz.	
Tincture of cantharides fl.dr.	4
Spirit of soapfl.oz.	2
Cologne waterfl.oz.	5
Alcoholfl.oz.	5
Peru balsamgr. 19	92
Oil of bergamotfl.dr.	11/2
Oil of sweet orangefl.dr.	11%
Oil of rose geraniumdrops	30
Brandy, enough to make fl.oz.	10
Cochineal enough to colo	or

Mix and filter.-Ph. Ztg.

# Cram's Fluid Lightning.

Contributed by I. L. Fulton to W. D	.:
Oil of mustard, volatilefl.dr.	1
Oil of cajeputfl.dr.	1
Oil of clovefl.dr.	1
Oil of sassafrasfl.dr.	1
Etherfl.dr.	
Tincture of opiumfl.dr.	6
Alcoholfl.oz.	10

#### Creme Simon.

This is stated (A. D.) to be composed of zinc white and powdered talc suspended in a mixture of glycerin and water and perfumed with oil of patchouly.

# Cuticura Ointment.

Petrolatum containing boric and carbolic acids, about 2 per cent of the latter, perfumed with oil of bergamot and colored green either with chlorophyll or green aniline.—N. I

## Cuticura Resolvent.

Aloes, socotrine	50
Rhubarb, powdergr. (	80
Potassium iodide	36
Whiskeyfl.oz. 1	16

# Macerate over night and filter.-Kilner.

# Cuticura Soap.

This is toilet soap containing boric and carbolic acids.—N. I.

#### Darby's Prophylactic Fluid.

Potassium permanganategr.	5
Potassium sulphate	0
Potassium carbonateav.oz.	134
Potassium chlorideav.oz.	14
Water, enough to makefl.oz. 1	6

#### Darwin's Liniment.

Oil of wormwoodfl.oz.	1
Oil of thyme (red)fl.oz.	1
Stronger water of ammoniafl.oz.	1
Wood alcoholfl.oz. 1	3

# Davis' (Perry) Pain-Killer.

The following is said to be similar (W. D.):
Tincture of myrrhfl.oz. 1/2
Tincture of guaiacfl.oz. 11/2
Tincture of capsicumfl.oz. 1
Spirit of camphorfl.oz. 2
Alcoholfl.oz. 3
Alkanet
Magazata for a day than filter

Macerate for a day, then filter.

# Davy's Urinal Cakes. (Disinfecting Solid.)

A mixture of resin with sulphates of copper, iron, zinc and sodium and some alum. These salts are probably powdered and mixed with the resin by fusion.—O. J. Bierbach.

#### Dean's King Cactus Oil.

ł

The following is suggested as yielding similar results:

Petroleum (neutral) oilfl.oz. 1	Ð
Kerosenefl.oz.	
Oil of mirbane enough to perfum	e
Alkanet to colo	F

Filter the kerosene through alkanet root until it is sufficiently colored, add the petroleum oil, and perfume with oil of mirbane.

#### Declat's Syrup of Phenic Acid.

The following makes a syrup of phenic acid:

Carbolic acid, puregr. 6	7
Glycerinfl.oz.	2
Simple syrupfl.oz. 1	4
Essence of cognacfl.dr.	1

# Dental Anæsthetics.

For the composition of various proprietary den tal anæsthetics, see the following in their Phabetical place:

Anæstheto Obtundent, Arophene, Barr's Dental Anæsthetic, Dental Surprise, Dick-Son's Improved Anæsthetic, Dorsenia, Eureka Dental Anæsthetic, Jessop's Dental Anæs thetic, Odontodol, Odontunder, and Weinman's Dental Anæsthetic.

# Dental Surprise.

This contains about one and one-half per CETAt of cocaine hydrochlorate and some CETAbolic acid.—Sadtler.

# Deshler's Salve.

According to N. I., this is similar to Comund Resin Cerate, U. S. P., 1870, which is prepared as follows:

Resinav.oz.	4
Suet av.oz.	4
Yellow waxav.oz.	4
Gum turpentineav.oz.	2
Linseed oilfl.oz.	
Melt the way such and resin add the	tur_

Pentine and then the oil, strain, and stir until Cool.

# Dextro-Quinine.

This is said to consist of quinidine with other lkaloids left after the extraction of quinine from red cinchona.—Fenner's Form.

# Dextro-Saccharin.

Saccharin.....part 1 Glucose, crystal...parts 1,000 to 2,000 —B. Fischer.

#### Dickson's Improved Anæsthetic.

This contains 4 per cent of cocaine hydrochlorate with some carbolic acid and chloral hydrate.—Sadtler.

#### Dioviburnia.

According to the manufacturers' statement as to composition, the following may yield a similar preparation:

Fluid extract of blackhaw	fl.oz. 3
Fluid extract of cramp bark	fl oz. 8
Fluid extract of wild yam	fl.oz. 8
Fluid extract of star grass	
Fluid extract of helonias	
Fluid extract of mitchella	
Fluid extract of blue cohosh	fl.oz. 3
Fluid extract of scullcap	
Simple elixir	

# Dorsenia.

This is a dental anæsthetic containing onefifth per cent of cocaine hydrochlorate with some carbolic acid, camphor, and probably alcohol.—Sadtler.

#### Dusart's Syrup.

A French proprietary preparation consisting essentially of syrup of lactophosphate of lime flavored with orange flower water.

# Dyche's Compound Capsules of Guaiacol No. 1.

Each capsule contains 5 minims of guaiacol, 10 minims of cod liver oil, and  $\frac{1}{4}$  gr. of codeine.

# Dyche's Compound Capsules of Guaiacol No. 2.

Each capsule contains 5 minims of guaiacol, 10 minims of cod liver oil, and  $\frac{1}{3}$  gr. of iodine.

#### Dyche's Compound Pills of Potassium Iodide.

Each pill contains 5 grains of potassium iodide and one-twentieth grain of red iodide of mercury.

#### Edison's Polyform.

This is said to make a similar preparation (Ph. Era):

Chloral hydrate	.av.oz. 1
Camphor	.av.oz. 1
Morphine sulphate	gr. 3
Chloroform	fl. oz. 1
Ether	fl oz. 4
Alcohol	tl.oz. 6
Oil of peppermint	fl.dr. 1

#### Edwards' Alterative and Tonic Bitters.

Fluid extract of hopfl.oz. 1	
Fluid extract of red cinchonafl dr. 4	
Fluid extract of sarsaparillafl.dr. 3	
Fluid extract of hydrastisfl.dr. 3	
Fluid extract of podophyllumfl.dr. 2	
Oil of wintergreendrops 24	
Oil of sassafrasdrops 12	
Oil of peppermintdrops 8	
Oil of lemondrops 8	
Sugar	
Alcoholfl.oz. 16	
Water, enough to make fl.oz. 96	

Mix, dissolve the sugar and strain.—Era Form.

#### Egyptian Eye Salve.

This is said to be composed of the following (N. I):

White resinav oz.	12
Burgundy pitchav.oz.	1
Yellow waxav.oz.	1
Mutton suetav.oz.	1
Venice turpentineav.oz.	1
Balsam of firav.oz.	1

#### Electric Headache Cures.

These all consist essentially of an alcoholic solution of essential oil of mustard, which is usually sprinkled on a small tuft of cotton inclosed in a wide-mouthed bottle. The twisted wires in these bottles are placed there simply to delude a gullible public.

#### Elepizone.

Magnesium bromidegr.	180
Sodium bromidegr.	180
Water	24
Oil of cassiadrops	2´¯
Simple syrup, enough to make fl.oz.	4
N	I. <b>I</b> .

#### Elixir of Lactopeptine.

The formulas in Part I, under the heading Compound Elixir of Pepsin, may furnish similar preparations.

#### Elixir Nutrans.

According to the makers' statements, the following and the next have like essential constituents in like proportions:

Fluid extract of cocafl.dr.	5%
Fluid extract of damianafl.oz.	1
Fluid extract of kolafl.dr.	5%
Fluid extract of saw palmetto fl. oz.	
Extract of beefgr.	
Simple elixirfl.oz.	

Mix, dissolve the extract by agitation, and filter through purified talcum.

The published formula gives 2 ounces of fresh beef to the fluidounce.

#### Elixir Purgans.

Fluid extract of cascara sagrada fl.oz. 2 Fluid extract of senna, deodorized.....fl.oz. 1 Fluid extract of wahoo.....fl.oz. 1

a fund extract of walloo	
Fluid extract of blue flagfl.dr.	- 4
Fluid extract of henbane leaves. fl. dr.	
Simple elixirfl.oz.	11

# Elixir of Salicylic Acid, Compound.

See above in Part I.

# Elixir Six Aperiens.

According to the statement of composition made by the manufacturers, the following yields a preparation having similar essential J constituents in about the same proportions:

Fluid extract of caseara sagrada fl.oz	1
Fluid extract of podophyllum fl.oz.	1
Fluid extract of dandelion fl.oz.	1
Fluid extract of butternut:fl. oz.	1
Fluid extract of sennafl.oz.	2
Rochelle saltav.oz.	21
Simple elixir, enough to makefl.oz.	16

#### Elixir Six Bromides.

According to the statement of composition by the manufacturers, the following contains like essential constituents in about the same proportions, the two last items being given in the advertisements simply as "cannabis indica and aromatics:"

Potassium bromidegr.	640
Sodium bromidegr.	640
Ammonium bromidegr.	384
Calcium bromidegr.	192
Lithium bromidegr.	64
Iron bromidegr.	64
Tincture of cannabis indicafl.oz.	1
Simple elixir, enough to makefl.oz.	16

#### Elixir Six Hypophosphites.

According to the statement of composition by the manufacturers, the following has like constituents in about the same proportions:

Iron hypophosphitegr. 3	8
Calcium hypophosphitegr. 44	
Manganese hypophosphitegr. 10	3
Potassium hypophosphitegr. 3	8
Quinine sulphategr. 10	8
Strychnine sulphategr.	L
Potassium citrategr. 6	)
Sugarav.oz.	
Alcoholfl.oz.	
Compound spirit of orangefl.dr.	1
Water, enough to makefl.oz. 10	8

Dissolve the iron and manganese hypophosphites and potassium citrate in 2 fluidounces of water by the aid of heat, also the calcium and potassium hypophosphites in the same amount of water, and also the alkaloidal salts in a similar amount of water. Mix all three solutions, let stand for 24 hours, filter, dissolve the sugar in the filtrate, add the alcohol containing the spirit, and finally add the remainder of the water.

# Histir of Six Iodides.

The preparation of the same name in Part **I** has like essential constituents in about **the** same proportions.

# Ely's Cream Balm.

These two widely different formulas have n published (W. D. and N. I.):

# I.

Bismuth carbonategr.	15
Thymol	8
C)il of wintergreendrops	2
Petrolatum	<b>480</b>

# II.

White waxgr.	60
Paraffin waxgr.	80
Sweet almond oil fl.dr.	2
Petrolatumgr.	240
Nitrate of sodiumgr.	30
Waterfl.dr.	1/2
Oil of lemondrops	10
Oil of orangedrops	2

# Eno's Fruit Salt.

Both of the following are said to resemble **The** original:

#### I.

Rochelle saltav.oz.	21/2
Tartaric acidav.oz.	31
Sodium bicarbonateav.oz.	314
-N.	I.

# II.

Magnesium sulphateav.oz	2
Magnesium citrate	2
Potassium bitartrate av oz.	2
Sodium bicarbonateav.oz.	2
Tartaric acidav oz.	2
Powdered sugarav.oz.	4

Thoroughly dry, mix and preserve in wellstoppered bottles.—Monthly Mag. Phar.

#### Eulyptol.

Carbolic acid	
Oil of eucalyptus	
Salicylic acid	parts 6
•	-Schmelz

# Eureka Dental Anæsthetic.

This contains 3<sup>1</sup>/<sub>2</sub> per cent of cocaine hydrochlorate with some carbolic acid and oil of rose.—Sadtler.

#### Euthymol.

Lister's Antiseptic Solution, Part I, is of a similar type.

### Esencia de Calisaya.

Calisaya bark.	moderately	
coarse powder		. 8
Calcium oxide	gr	. 260
Water	fl.oz	. 2
Cinnamon water	fl.oz	. 101/2
Simple syrup	fl.oz	. 104
Aromatic spirit.	fl.oz	. 11/2
	av.oz	
Alcohol,		
Diluted sulphuri	c acid, of each, suffi	cient

Slake the quicklime with the water, incorporate the bark, and dry the mixture. Then pack in a percolator and exhaust with hot alcohol so as to obtain  $9\frac{1}{2}$  fluidounces of percolate. If the alcohol used be insufficient to secure exhaustion of the drug, more may be added, the excess to be removed subsequently by evaporation or distillation. To the percolate add enough of the acid to precipitate all of the calcium, set aside for ten days, filter, add the remaining ingredients, let stand a few days, agitating frequently, and filter, returning the first portions of the filtrate until the liquid runs through clear.

#### Espey's Fragrant Cream.

The following is similar:

Tragacanth, powdergr.	120	
Glycerinfl.oz.	ĸ	
Alcoholfl.oz.		
Waterfl.oz.	4	
Oils of lavender, bergamot and		
rosemarysufficient to perfume		

#### Essence of Pepsin.

See Part I.

#### Exodyne.

Acetanilid	
Sodium salicylate	part 1
Sodium bicarbonate	part 1
	Goldman.

Febriline. (Tasteless Syrup of Amorphous Quinine-Lyons.)

Advertised as the active principle of amorphous quinine, each teaspoonful equaling 2 grains of the sulphate. This is said to yield a simi'ar result:

Quinidine suspended in syrup, about 2 grains in 1 fluidounce, and flavored with spirit of lemon.—Eccles.

# Fellows' Syrup of Hypophosphites.

The manufacturers state that it contains potash, lime, iron, manganese.quinine, strychnine and phosphorus; the whole combined in the form of a syrup with a slightly alkaline reaction. The formula below is based upon analysis and is claimed to furnish a preparation essentially similar to the original:

Calcium hypophosphitegr.	84
Potassium hypophosphitegr. 2	
Iron sulphategr.	
Manganese sulphategr.	
Quinine sulphategr.	
Strychnine sulphategr.	
Syrupy glucoseav.oz.	
Simple syrupfl.oz.	8
Water, enough to makefl.oz.	16

Dissolve the calcium and potassium hypophosphites in 2 fluidounces of water. Add to 1 fluidounce of the water 3 fluidrams of the syrup and dissolve in the mixture, by the aid of heat, the remainder of the salts. Mix the solutions, set aside for a few hours, filter into a bottle containing the remainder of the syrup, wash the filter with 1 fluidounce of boiling water, to the liquid add the glucose and then enough water to make 16 fluidounces.

#### Flagg's Relief.

Oil of clove	fl.oz. 2
Oil of sassafras	fl.oz. 4
Spirit of camphor	
• •	-I. I. Pierson.

#### Freligh's Tonic. (Phosphorized Cerebro-Spinal Tonic.)

According to the statement of composition by the manufacturers, the following contains the same essential constituents in about the same proportions:

Fluid extract of nux vomicafl.dr.	21/2
Fluid extract of ignatiafl.dr.	1
Fluid extract of yellow cinchona fl.oz.	614
Fluid extract of German chamo-	• •
milefl.oz.	
Fluid extract of gentianfl dr.	1
Fluid extract of bitter orange	
peeldrops	15
Fluid extract of columbodrops	40
Fluid extract of cardamomdrops	15
Spirit of phosphorusfl.oz.	71/2
Oil of orangedrops	2
Oil of clovedrop	1
Oil of cassiadrop	1
Simple syrupfl.oz.	4

# Frey's Vermifuge.

Castor oil	.fl.oz. 1
Aromatic syrup of rhubarb	fl.oz. 1
Oil of wormseed	
Croton oil	.drops 8
—Kilne	r's Form.

#### Fruit Salt or Saline.

See Tarrant's Aperient, or Eno's Fruit Salt.

#### Fluid Hydrastis.

This is a non-alcoholic water-miscible preparation of hydrastis, probably similar to Glycerite of Hydrastis, Part I.

#### Ford's Balsam of Hoarhound.

Hoarhoundav.oz.	31/2
Licorice rootav.oz.	814
Waterfl.oz.	16
Camphorgr.	75
Opiumgr.	60
Benzoingr.	60
Squillgr.	120
Oil of anisefl.dr.	
Alcoholfl.oz.	24
Honeyav.oz.	35

Macerate the hoarhound and licorice with the water for 12 hours, decant 12 fluidounces, to this add the remaining ingredients except the honey, macerate 7 days, strain, and add the honey.—N. I.

#### Fosgate's Anodyne Cordial.

Fluid extract of rhubarb	fi dr. 5
Fluid extract of rhatany	fl.dr. 2
Fluid extract of ginger	drops 6
Paregoric	
Simple syrup	fl.dr. 1
Diluted alcohol	fl.dr. 5
	—N. I.

#### Fossilin.

A petroleum product similar to petrolatum. —Coblentz.

#### Franck's Grains de Sante.

Aloes	parts 4
Jalap Rhubarb	parts 4
Rhubarb	part 1
Syrup of wormwood	sufficient
Make into 2-grain pillsCa	det.

#### Gelatol.

An ointment base consisting of a mixture of oil, glycerin, gelatin and water.—Helbing's Mat. Med.

#### Gargling Oil.

The following from "Salmon's Compendium" appears to yield a similar product:

Crude petroleumfl.oz.	314
Ammonia waterfl.oz.	
Soft soapav.oz.	
Benzinfl.oz.	4
Oil of amber, crudefl dr.	4
Tincture of iodinefl dr.	2
Waterfl.oz.	20

Mix the petroleum and soap, add the ammonia water, oil of amber and tincture of iodine and mix thoroughly. Then add the benzin and finally the water.

#### Giles' Iodide of Ammonia Liniment.

Iodinegr.	15
Alcoholfl.oz.	8
Camphorgr.	120
Oil of lavenderfl.dr.	1
Oil of rosemaryfl.dr.	1
Water of ammoniafl.oz.	1
	-

#### Gilt Edge Butter Compound.

This contains 30 per cent of pepsin and 70 per cent of hydrous sodium sulphate, besides a trace of pink coloring matter.—Wiley.

#### Gluten Suppositories.

These consist of cacao butter containing 10 per cent of wheat flour.—Vulpius.

#### Glycerole Yerbine Compound.

This contains the same essential ingredients in the same proportions as are claimed for a preparation of the same name on the market:

Yerba santaav.oz.	314
Licorice av.oz.	314
Grindeliagr.	480
Wild cherrygr.	480
Potassium bromidegr.	120
Pine targr.	45
Potassium carbonategr.	40
Salicylic acidgr.	32
Alcohol,	
Water,	
Classic contraction of the contr	

Glycerin ..... of each, sufficient

Mix the yerba santa, licorice, grindelia, and wild cherry to moderately fine powder, add the potassium carbonate, and extract by percolation so as to obtain 16 fluidounces of percolate, using as a menstruum a mixture of equal volumes of alcohol, water and glycerin. To the percolate add the potassium bromide, tar and salicylic acid, set aside for several hours, agitating occasionally, and filter.

## Glycoline.

This is a liquid petrolatum, according to the manufacturers' statement.

#### Glyco-Thymoline. (Kress.)

Each fluidounce is said to contain sodium 24, boric acid 4, benzoin 4, salicylic acid 0.33, eucalyptol 0.33, Thymoline 0.17, betula lenta 0.08, menthol 0.08, pinus pumilio 0.17, glycerin and solvents sufficient. This does not differ materially from Lister's Antiseptic Fluid, Part I, containing, in addition, oil of pinus pumilio. Wild indigo is replaced by red birch.

#### Glymol.

This is claimed to be a liquid hydrocarbon obtained from petroleum.

#### Godfrey's Cordial.

Oil of sassafras	.drops	6
Tincture of opium	.fl.dr.	44
Alcohol	.fl.dr.	6
Potassium carbonate		
Molasses	.fl.oz.	5
Waterenough to make	fl.oz.	16

Mix the tincture of opium with the alcohol in which the oil has previously been dissolved. Dissolve the potassium carbonate in 8 fluidounces of water, mix this with the molasses, add the mixture first prepared, and then enough water to make 16 fluidounces; allow the mixture to stand until it has become clear, and decant the clear liquid which is to be used.—N. F.

#### Gombault's Caustic Balsam.

This is said to consist of about the following (N, L):

Oil of red thyme parts	8
Oil of amber, rectified parts	8
Oil of rosemary parts	10
Camphorparts	20
Alcoholparts	30
Sulphuric acid parts	90
Oil of turpentine parts	340
Sulphurated oil	2.190

Mix the ingredients properly, stirring the acid into the other liquids mixed, and allow to cool.

# Gouraud's Oriental Cream.

This consists of calomel and water, about 39 grains of the former to 1 fluidounce of the latter.—N. I.

# Graham's Cucumber and Elder Flower

# Cream.

Sweet almond oil	fl.oz.	5
Saturated aqueous solution	of	
borax	fl.oz.	1
Oil of lemon	drops	16
Oil of bergamot	drops	8
Oil of bitter almond		
	-Can. I	)r.

# Gray's Glycerin Tonic Compound.

Each fluid half-ounce is stated to contain dilute phosphoric acid 12 minims, gentian root 10 grains extract of taraxacum 15 grains, glycerin 80 minims, sherry wine 80 minims, carminatives q. s. An essentially similar preparation is yielded by the following formula:

Compound fl. ext. of gentian fl.oz.	1
Fluid extract of dandelion fl.oz.	1
Dilute phosphoric acidm.	384
Glycerinfl.oz.	5
Sherry wine, enough to make fl.oz.	16

#### Gray's Specific Pills.

Nearly all of these "specific" pills are composed (W. D.) of asafetida with a little camphor and sometimes hops, or lupulin, e. g.:

Asafetida			gr. 2
Camphor			
Lupulin			gr. 1/8
The " specific	action '	lis in the	direction of

The "specific action " is in the direction of an anaphrodisiac.

## Green's August Flower.

The following produces a similar preparation (Coblentz):

Rhubarb	360
Golden sealgr.	90
Cape aloesgr.	16
Potassium carbonategr.	120
Peppermintgr.	
Capsicumgr.	
Alcoholfl.oz.	
Sugarav.oz.	
Waterfl.oz.	10
Waterfl.oz.	10

Macerate the drugs and the potassium carbonate in the alcohol and water for several days, agitating occasionally, then filter, add sufficient alcohol through the filter to make the filtrate measure 16 fluidounces and in the latter dissolve the sugar.

# Gurania.

A correspondent of the Western Druggist says a mixture of 1 part of caffeine and 2 parts of sodium bicarbonate closely resembles the above.

#### Green's Nervura.

Fisher states (A. D.) that this is similar to the following:

Cocaav.oz.	2
Damiana	2
Gentianav.oz.	2
Potassium bromidegr.	210
Sodium salicylategr.	120
Dandelionav.oz.	2
Alcoholfl.oz.	8
Glycerinfl.oz.	4
Waterenough to make fl.oz.	32

Grind the vegetable drugs to powder; add the alcohol and glycerin with an equal measure of water; macerate 24 hours, then percolate, adding enough alcohol and water in the proportion given to make 32 fluidounces, in which the sodium and potassium salts are to be dissolved.

#### Grimault's Matico Injection.

Made by dissolving 8 grains of copper sulphate in 16 fluidounces of infusion of matico, the latter being prepared from 1 ounce of leaves.—Wittstein.

#### Haarlem Oil.

τ.

Balsam of sulphur fl.oz.	1
Oil of turpentinefl.oz.	5
II.	
Balsam of sulphurfl.oz.	
Barbadoes petroleum fl. oz.	
Crude oil of amberfl oz.	
Oil of turpentinefl oz.	
Linseed oilfl.oz.	4

#### Haas' Hog Cholera Remedy.

According to a report of the U. S. Dept. of Agriculture, the following is probably the composition of this remedy:

Powdered soap parts	10
Potassium carbonate parts	5
Red ochreparts	12
Chalk	50
Quicklime parts	
Calcined magnesiaparts	13

#### Hagan's Magnolia Balm.

The following is said to make a similar preparation:

Zinc oxideav.oz.	3/2
Glycerinfl.oz. 1	35
Waterfl oz. \$	1
Carminegr.	34
Oil of bergamot drop 1	
Oil of lemondrop 1	
_N I	

# Haines' Golden Specific.

A formula for producing a preparation said to resemble the original was contributed to the D. C.:

Bayberry	root	barkparts	16
Capsicum		part	1
m			

Reduce to fine powder and mix thoroughly.

# Hair's Asthma Remedy.

The following is said to resemble the original (N. I.);

Potassium	iodide		av.	oz. 1
Tar water.				
Caramel	sufficient to	o color	light	brown

# Hall's Hair Renewer.

The following gives similar results (N.	I.)
	60
Precipitated sulphurgr.	60
Glycerinfl.oz.	8
Sodium chloridegr. 1	
Bay rumfl.oz.	2
Jamaica rumfl.oz.	4
Waterfl.oz.	16

# Hamlin's Wizard Oil.

#### I.

Spirit of camphorfl.oz. 1
Spirit of ammoniafl dr. 4
Oil of sassafrasfl.dr. 4
Oil f clove fl.dr. 2
Chloroformfl.dr. 4
Oil of turpentinefl.dr. 4
Alcohol.,enough to make fl.oz. 5
-J. J. Pierson.

# Harter's Wild Cherry Bitters.

The following is said to make a preparation similar to the original (Ind. Ph. and D. C.):

Wild cherry barkav.oz.	8
Yellow cinchona barkav.oz.	1
Orange peelav.oz.	2
Cardamom seedav.oz.	
Canada snake rootav.oz.	
Diluted alcohol sufficie	
Honeyfl.oz.	16
Syrupfl.oz.	16

Percolate the drugs in moderately fine powder with diluted alcohol, and when 96 fluidounces are obtained, add the honey and syrup.

# Hartman's Crimson Salt.

Boraxpart 1	
Potassium permanganatepart 1	
Salt (common)	
Alum	
-Frercksen.	

# Hayden's Viburnum Compound.

According to the statement of composition by the manufacturers, the following contains like essential constituents:

Cramp bark av oz.	4
Cassia barkav.oz.	2
Scullcap	
Wild yam av. oz.	
Clovesav.oz.	1/2
Alcohol,	
Water,	
Clucerin of each sufficie	nt

Mix the drugs, reduce to powder, and extract with a menstruum composed of 1 volume of glycerin. 1 of water, and 2 of alcohol so as to obtain 32 fluidounces of product.

#### Headine.

Acetani	lid		parts 7
Sodium	bicarbonate.		parts 3
		-Dr.	Schneider.

# Heiskell's Tetter Ointment.

This is said (W. D.) to be cerate of subacetate of lead.

### Helonia Tablets.

According to the statement of composition by the manufacturers, each tablet may be computed to contain essentially the following ingredients:

Extract of heloniasgr.	1/2
Extract of henbanegr.	1
Extract of opiumgr.	34
Tannic acidgr.	2
Salicylic acidgr.	1
Boric acidgr.	3
Alum	1
Thymolgr.	1
Eucalyptolgr.	

The published formula does not specify the amounts of alum, thymol and eucalyptol.

#### Hemicranine.

Phenacetine.		×									p	arts	5
Caffeine	2							•			-	part	1
Citric acid			à	1								part	1

# Henry's Carbolic Salve.

Carbolic acid	
Resin cerategr. 270	
Oil of bergamotdrops 2	
Oil of lavenderdrop 1	

#### Henry's Magnesia.

This is heavy calcined magnesia.

# Henry's Tri-Iodides. (Solution of Tri-Iodides-Solution of Triple Hydroiodates.)

The published formula says that each tablespoonful contains as iodides of their alkaloids the active constituents of 30 grains each of colchicum seed, poke-root and bittersweet and 10 grains of sodium salicylate. According to this the formula below approximately represents the preparation:

Fluid extract of colchicum seed fl.oz.	1
Fluid extract of poke-rootfl.oz.	1
Fluid extract of bittersweetfl.oz.	1
Potassium iodidegr.	64
Sodium salicylategr.	320
Simple elixir, enough to make fl.oz.	

#### Hensel's Tonicum. (Essentia Tonica Henseli.)

Formic acid (sp. gr. 1.200)fl.dr.	81
Marble dustgr.	140
Ferrous sulphate, crystalgr.	96
Solution of tersulphate of iron fl.dr.	· 61/2
Glacial acetic acid	
Alcoholfl.oz.	5
Acetic etherfl.dr.	1
Waterfl.oz.	6½

Dissolve the marble dust in 3¼ fluidounces of water containing the formic acid; also dissolve the ferrous sulphate in the remainder of the water and add the solution of tersulphate of iron and the acetic acid. Mix the two liquids, add the alcohol, allow the calcium sulphate to precipitate, filter, and to the filtrate add the acetic acid.-W. D.

#### Himrod's Asthma Cure.

Lobelia herb	av.oz. 2
Stramonium leaves	av. oz. 2
Potassium nitrate	<b>a</b> v.oz. 2
Black tea	av.oz. 2
Dender with and site	Contractor

Powder, mix and sift.-Contributed to Holloway's Pills. W. D.

# Hinds' Honey and Almond Cream.

This formula G. II. Rose has contributed to D. C. as furnishing a similar preparation:

Cold cream, U. S. Pav.oz.	1
Sweet almond oilfl.oz	
Glycerin	1
Boric acidav.oz.	
Solution of sodafl.oz.	21/2
Mucilage of quince seedfl.oz.	5
Water, enough to makefl.oz.	
Oil of bitter almond,	
Oil of rose, of each, sufficient to perfut	me.

Heat the cold cream, oil and solutio of soda together, stirring constantly until an emulsion is formed; then warm together-The glycerin, acid, mucilage, and about 30 fL and idounces of water, mix with the emulsion, Stir until cold, and make to 40 fluidounces by = Ledding more water. Lastly add the volatile - ils.

# Hoff's Malt Extract.

The following produces a good preparation of its class:

Althæaav.oz.	8
Corianderav.oz.	8
Star aniseav.oz.	4
Grains of paradiseav.oz.	4
Simple syrupfl.oz.	16
Glycerinfl.oz.	16
Oil of lemon, drops	3
Oil of orangedrop	1
Caramelav.oz.	8
Water, boilinggal.	1%

oarse The drugs are mixed, reduced to c o the powder, and infused with the water; t ngreinfusion add the remainder of the im f this dients, and mix well; 16 fluidounces of inary liquid is added to one barrel of ord= brewers' beer.

## Holloway's Ointment.

Fresh butter, free from water	12
or salt <b>av.oz.</b>	Ĩ
Yellow waxav.oz.	. 3
Resin <b>av.oz.</b>	- 1
Vinegar of cantharidesfl.oz.	
Balsam of firav.oz.	<u> </u>
Expressed oil of macegr.	30
Peru balsamdrops	- 12

Melt the butter, wax and resin, ad Ed the - 10 0 vinegar, allow the whole to simmer for  $\Gamma$ 12 minutes, allow to cool somewhat, ads Fodd th remaining ingredients, and stir until cocool.

Aloesgr.	- 7. 50
Jalapgr.	- 18 - 18
Gingergr.	18
Myrrhgr.	10
Mix and make 80 pillsN. I.	

.

#### Horner's Rheumatic Lightning.

Fluid extract of colchicum seed fi.d Fluid extract of black cohoshfi.d Potassium acetateg Sodium salicylateg	
Sodium salicylateg	
Water, enough to makefl.o	

# Hooper's Female Pills.

Aloes, socotrinegr. 48	3
Dried sulphate of irongr. 18	3
Extract of black hellebore gr. 12	3
Myrrhgr. 15	
Soapgr. 19	
Powdered canellagr. (	5
Powdered gingergr. (	3

Beat them well together into a mass, with syrup or water, and divide into pills, each containing 2½ grains.

#### Hop Bitters.

The following is said to be similar:

Hopsav.oz.	4
Orange peelav.oz.	2
Dandelion av.oz.	
Buchuav.oz.	
Mandrakeav.oz.	
Sugarav.oz.	
Alcoholfl.oz.	16
Water, to-makepints	8

Macerate the drugs in coarse powder in the alcohol and 7 pints of water, at a warm temperature, for 8 days. Express and dissolve the sugar in the liquid, to which add water, if necessary, to make 8 pints, and strain.— W. D.

#### Horsford's Acid Phosphate.

Solution of Acid Phosphates, Part I, is an excellent preparation containing acid phosphates.

#### Hostetter's Bitters.

The following is said to produce a similar article (D. C.):

Gentiangr.	15
Blessed thistlegr.	15
Calamusgr.	15
Orange peelgr.	60
Oil of orangedrop	1
Sugargr.	320
Alcohol,	
Water, of each enough to make fl.oz.	16

Mix the drugs, extract with a menstruum consisting of 3 volumes of alcohol and 2 of water, and in the liquid obtained dissolve the sugar and oil of orange.

#### Hudson's Honey of Elm.

This is a tooth paste containing precipitated chalk," powdered pumice stone, glycerin, oil of clove, oil of wintergreen, and simple syrup.—Era Form.

#### Hubert's Malvina Cream.

The following will make a preparation resembling the original (N. I.):

White petrolatumav.oz. 6
White wax
Spermacetigr. 300
Bismuth oxychloridegr. 400
Mercuric chloride gr. 5
Oil of rosedrops 6
Oil of hitter almond drop 1

Warm together the petrolatum, white wax and spermaceti until melted. While cooling incorporate the bismuth oxychloride and the mercuric chloride, this last previously dissolved in a little alcohol, and when nearly cold stir in the volatile oils.

# Hubert's Malvina Lotion.

This is said (A. D.) to be an emulsion of almond with rose water and containing oxide of zinc and corrosive sublimate. A formula for such a preparation may be constructed as follows:

Mercuric chloride		gr. 2
Zinc oxide		
Emulsion of almonds		pint .
Make the emulsion	from 120	grains of

sweet almonds with rose water.

#### Husband's Magnesia.

This is heavy calcined magnesia.

#### Hydroleine.

This contains approximately the same ingredients in the same essential proportions as are claimed for the original, and may be presumed to yield a similar result:

Cod liver oilfl.oz.	8
Solution of sodafl.dr.	51/2
Boric acidgr.	12
Hydrochloric acidgr.	2%
Saccharated pancreatingr.	240
Water, enough to make,fl.oz.	12

#### Idiaton.

Its approximate composition is given (according to W. D. ) as follows:

Venice turpentinepart 1
Mastic
Chloroform
Spirit of ammoniaparts 2
Oil of cloveparts 2
Oil of mustard (volatile) a small quantity

This is a toothache remedy sold largely in Germany.

# Injection Brou.

Zinc sulphate	gr. 15
Lead acetate	gr. 30
Tincture of catechu	fl.dr. 1
Crocated tincture of opium	fl dr. 1
Water, distilled	fl.oz. 6
and the second se	-Hager.

# Iodia.

This is claimed to be a combination of active principles of stillingia saxifraga, menispermum, and aromatics, each fluidram containing 5 grains potassium iodide and 3 grains of iron phosphate. Compound Elixir of Potassium Iodide, Part I, appears to be similar in character.

#### Iodophenochloral.

Tincture	of iodinepar	t1
Carbolic	acid	t1
Chloral	hydratepar	t 1

#### Jayne's Tonic Vermifuge.

This contains sodium santoninate, pinkroot, jalap, peppermint, erigeron, wintergreen, sugar and water.—N. I.

#### Jayne's Expectorant.

The following will produce a similar preparation (Kilner's Form.):

Syrup of squillfl.oz.	2
Tincture of tolufl.oz.	11/2
Tincture of lobeliafl.dr.	1
Tincture of digitalisfl.dr.	1
Tincture of opiumfl dr.	
Spirit of camphor fl.dr.	1
Wine of ipecacfl.dr.	2
Tartar emeticgr.	2

Dissolve the tartar emetic in the tincture of lobelia or digitalis, and mix with the remaining ingredients.

#### Jesson's Dental Anæsthetic.

This contains about 2.6 per cent of cocaine hydrochlorate with some carbolic acid and oil of rose.—Sadtler.

#### Jewsbury & Brown's Oriental Tooth Paste.

This, according to Nelson's "Handbook," makes a similar preparation:

Carmine	)
Water fl.dr.	3
Honey	8
Oil of peppermintdrops	5
Oil of anisedrops	5
Oil of orangedrops 10	)
Oil of wintergreen drops 10	
Precipitated chalk sufficien	t

Rub together, using enough of the chalk to make a firm paste.

#### Kalydor.

Bitter almonds, blanched av	.oz	10
Rose waterfl.	OZ.	50
Corrosive sublimate	gr.	5
Ammonium chloride	OZ.	34
Cherry laurel water fl.		
Alcoholfl.	oz.	11/2

Mix an emulsion of the almonds and the rose water, strain, add the ammonium chloride and cherry laurel water, and then the corrosive sublimate dissolved in the alcohol.— Nat. Dr.

## Kaputine.

This is chiefly a colored acetanilid.—British Medical Journal.

#### Kendall's Spavin Cure.

The following makes a preparation similar to the orginal (N. I.):

Oil of rosemaryfl.dr.	1
Oil of turpentinefl.oz.	1
Camphorgr.	
Petroleum oil (heavy)fl.dr.	1/2
Alcoholfl.oz.	
Iodinegr.	125

Dissolve the iodine in a little alcohol and add it to the other ingredients, previously dissolved in the alcohol and water.

#### Kennedy's Medical Discovery.

This makes a similar preparation (N. I.):

Fluid extract of mandrakefl dr.	10
Fluid extract of dandelion fl. oz.	1
F luid extract of leptandrafl.dr.	3
Alcoholfl.oz.	5
Water, enough to make fl.oz.	16

#### Kennedy's Pinus Canadensis (Dark).

The Fluid Extract of Pinus Canadensis, Part I, is presumably similar

#### Kennedy's Pinus Canadensis (White).

Zinc sulphate part 1
Glucose
Water
Hemlock oila few drops
-Tscheppe.

# Kern's Insect Annihilator.

The following is said to resemble this mixture (W. D ):

Deodorized	benzin	fl.oz.	16
		fl.oz.	
Oil of winte	rgreen	fl.oz.	1

This composition is certain destruction to cockroaches, bedbugs, fleas, ants, and other insects.

#### Kidneywort.

The dry preparation is a mixture of drugs, dandelion, hydrangea, etc., with roasted beans. The liquid preparation contains the extract of similar drugs.—Fenner's Form.

#### King's New Discovery.

According to the N.I., a similar preparation is made as follows:

Morphine sulphate	8
Sugar, granulatedav.oz.	14
Chloroformdrops	
Tincture of white pine fl.oz	2
Fluid extract of ipecacfl dr.	2 1/2
Magnesium carbonatedr.	2
Waterfl oz.	7

Rub one ounce of sugar with ¼ ounce of magnesium carbonate, triturate with the tincture and fluid extract, gradually add the water with continued trituration. Filter, dissolve the morphine and sugar in the filtrate, strain and add the chloroform.

#### Kitchell's Liniment.

Water	
Ammonia	water
Color with	caramelJ. Goldbach.

#### Kline's Great Nerve Restorer.

The following is said to make a similar preparation (Dr. R. C. McCann):

Ammonium bromidegr.	180
Potassium bromideav.oz.	3
Potassium bicarbonategr.	70
Tincture of columbo	6
Waterfl.oz.	6

# Kœnig's Hamburg Breast Tea.

This is a mixture of cut licorice root, althea root, althea flowers, coltsfoot herb, redpoppy petals mallow flowers, calendula flowers, and blind nettle flowers.—Ph. Rundsch.

#### Kœnig's Hamburg Drops.

This is similar to Elixir of Long Life, Part I.-D. C.

## Kœnig's Hamburg Plaster.

Mother plasterav.oz.	8
Suetav.oz.	1/2
Black pitchav.oz.	1/2
Amber	1
Peru balsamgr.	45

#### Knox's Disinfecting l'owder.

Chlorina	ated lime.					.av.oz.	4
Sodium	chloride.	• •		• •		,av.oz.	12

#### Lactopeptine.

According to statement of composition by manufacturers. the following are the ingredients of a similar preparation:

Pepsingr.	48
Pancreatingr.	36
Diastasegr.	3
Hydrochloric aciddrops	4
Lactic aciddrops	4
Milk sugar gr. 2	240

#### Lactopeptine Elixir.

See Elixir of Lactopeptine.

Lactopeptine Elixir with Bismuth.

The following is an elixir containing lactopeptine and bismuth:

Ammonio-citrate of bismuthgr.	128	
Waterfl.oz.	2	
Elixir of lactopeptine (prepared		
without acid)fl.oz.	14	

Dissolve the bismuth salt in the water by the aid of a small amount of ammonia water, carefully avoiding any excess of the latter, and add this solution to the elixir.

#### Lactopeptine Elixir with Calisaya.

The following is an elixir containing lactopeptine and calisaya:

Elixir cf lactopeptine.....fl.oz. 14 Fluid extract of cinchona.....fl.oz. 2

#### Lactopeptine Elixir with Calisaya, Iron and Bismuth.

The following is an elixir containing lactopeptine, calisaya, iron and bismuth:

Fluid extract of cinchona....fl.dr. 10 Iron pyrophosphate, soluble....gr. 192 Ammonio-citrate of bismuth....gr. 32 Water .....fl.oz. 1½ Elixir of lactopeptine (prepared

without acid) .....fl.oz. 13

Dissolve the bismuth in a small amount of water by the aid of a little ammonia, dissolve the iron salt in the remainder of the water, mix all, and filter.

#### Lactopeptine Elixir with Gentian and Chloride of Iron.

The following is an elixir containing lactopeptine, gentian and iron chloride:

Fluid extract of gentian.....fl.dr. 2 Tincture of citro-chloride of iron fl.oz. 2 Elixir of lactopeptine, enough to make.....fl.oz. 16

# Lactopeptine Elixir with Phosphate Laubach's Eclectic Liniment. of Iron, Quinino and Strychnine.

The following is an elixir containing lactopeptine, iron phosphate, quinine and strychnine:

Quinine hydrochlorate	
Strychnine sulphategr. 1	
Iron phosphate, solublegr. 64	
Water, distilledfl.oz. 2	
Elixir of lactopeptine (prepared	
without acid)fl.oz. 14	

#### Lactopeptine Elixir with Strychnine and Bismuth.

The following is an elixir containing lactopeptine, strychnine and bismuth:

Ammonio-citrate of bismuthgr. 128	
Strychnine sulphategr. 2	
Water	
Water of ammoniasufficient	
Elixir of lactopeptine (prepared	

without acid).....fl.oz. 14

Dissolve the bismuth salt in a small amount of water, adding some water of ammonia to insure complete solution, but avoiding any excess of the latter. Dissolve the strychnine salt in the remainder of the water, add this to the elixir, then add the bismuth solution. let the whole stand a few hours, and filter.

#### Lactopeptine, Liquid.

Lactopep	otine.,	έ.,	 	 	 	.gr	600
Distilled	water		 	 	 .f	1.oz.	10
Glycerin							
2						-D	. C.

Lallemand's Gout Specific.

Extract of colchicumgr.	60
Extract of opium gr.	60
Potassium iodide av.oz.	2
Potassium acetateav.oz.	1
Waterfl.oz.	14
White winefl.oz.	2
-Era For	

#### Laird's Bloom of Youth.

Ziuc oxidegr. 1	80
Precipitated chalkgr. 1	80
Oil of bergamotdrops	2
Waterfl oz.	3

#### Lavoline.

This is said to be purified liquid petrolatum.-Reg. Ph.

#### Laxol.

This is said to consist of castor oil sweetened with saccharin and flavored with peppermint.-Ph. Era.

Oil of turpentinefl.oz. 1
Tincture of arnica flowersfl.oz. 2
Stronger water of ammoniafl.oz. 2
Soap liniment,
Oil of sassafras
Oil of thymedrops 16
Alcohol

# Liquor Sedans.

According to statements of composition by the manufacturers, Elixir of Black Haw Compound, Part I, produces a preparation having the essential constituents of a similar product.

#### Liquor Uterans.

According to the manufacturers, each fluidounce represents 55 grains of blackhaw, 28 grains of blue cohosh, 25 grains of Jamaica dogwood, and 55 grains of golden seal, with aromatics. An essentially similar preparation will be obtained by this formula:

Fluid extract of blackhawfl.oz.	116
Glycerite of hydrastisfl.oz.	14
Fluid extract of blue cohoshfl.oz.	1
Fluid extract of Jamaica dog-	
woodfl.oz.	1
Simple elixir, enough to makefl.oz.	16

#### Listerine.

This is claimed to be the "essential antiseptic constituent of thyme, eucalyptus, baptisia, gaultheria, and mentha arvensis in combination. Each dram also contains 2 grains of refined and purified benzo-boracic acid." Formulas for several good antiseptic solutions are given under "Lister's Antiseptic Solution," Part I.

#### Listol.

This is dithymol diiodide, also known as annidalin and aristol.

# Lithiated Hydrangea.

Each fluidram is claimed to represent 30 grains of fresh hydrangea and 3 grains of c. p. benzo-salicylate of lithia. The formula below is for a preparation of similar character:

Lithium salicylategr.	240
Lithium benzoategr.	120
Fluid extract of hydrangeafl.oz.	3
Alcoholfl.oz.	4
Water, enough to makefl.oz.	16

#### Lloyd's Leontin.

This is a 1-per-cent solution of leontin in an alcoholic menstruum, according to the manufacturers' statement. .

# Lotsil.

Acetanilidgr.	36
Sodium bicarbonategr.	
Caffeine citrategr.	6
Camphor monobromidegr.	

Dispense either as powder or in 5-grain

# w's Magnetic Liniment.

The following makes a similar preparation ( > . 1.):

Oil of turpentine	.fl.oz.	1%
Tincture of capsicum		
Spirit of camphor		
Stronger water of ammonia		
Alcohol	fl. oz.	31/2
Oil of sassafras	m.	50
Fluid extract of sassafras	. fl.dr.	5

#### Luperine.

This is a mixture of powdered columbo, Sentian and quassia.—Coblentz.

#### Lyon's Kathairon.

This is said (N. I.) to consist of substantially the following:

Alcoholfl.oz.	12
Castor oilfl.oz.	4
Tincture of cantharidesfl.dr.	4
Tannic acidgr.	80
Oil of citronellafl.dr.	
Oil of bergamotfl.dr.	1/2
Oil of clovesfl.dr.	1/2
Oil of rosemarydrops	8
Oil of lavender flowersdrops	8
N#1 1 C1.	

Mix and filter.

#### Lyon's Tooth Powder.

This contains soap, precipitated chalk, pumice stone and oil of wintergreen. -N. I.

# McDade's Succus Alterans. (McDade's Prescription.)

This is claimed to be prepared from the fresh green drugs. The "Extract of Bamboo Brier " Part I, is of similar composition.

#### MacDougall's Disinfecting Powder.

This is prepared by adding crude carbolic acid to sodium sulphite.—Frerksen.

#### Maltine.

This is said to be prepared from malted barley, oats and wheat, equal parts, as described in Part I, for making Extract of Malt.

# Maltine with Cascara Sagrada.

Fluid extract of	cascara sagrada	fl.oz.	2
Maltine		fl.oz.	14

#### Maltine with Cod Liver Oil.

Cod liver	oil.	 	fl.oz. 3
Maltine .		 	fl.oz. 7

#### Maltine, Ferrated.

Iron pyrophosphate, solublegr. 12	28
Water, hotfl.oz.	1
Maltinefl.oz. 1	
Dissolve the iron salt in the water and	add

the maltine.

# Maltine with Hypophosphites.

Calcium hypophosphitegr.	<b>4</b> 8
Sodium hypophosphitegr.	48
Iron hypophosphitegr.	
Potassium citrategr.	60
Water fl.oz.	
Maltinefl.oz.	15

Dissolve the potassium citrate and iron hypophosphite in one-half fluidounce of water by the aid of heat, also the calcium and sodium hypophosphite in the same amount of water, and mix the two solutions with the maltine.

#### Maltine with Pepsin and Pancreatin.

Pepsin, saccharated......gr. 640 Pancreatin, saccharated......gr. 240 Maltine .....fl.oz. 16 Mix all by trituration.

# Maltine with Iron Phosphate, Quinine and Strychnine.

Iron pyrophosphategr.	64
Quinine hydrochlorategr.	16
Strychnine sulphategr.	11
Distilled water, hotfl.oz.	1
Maltinefl.oz.	15
Dissolve the iron and alkaloidal salts i	n the

water and add to the maltine.

# Mariani Wine of Coca.

The following makes a satisfactory wine of coca:

Coca leaves, coarse powderav.oz.	11/2
Coca leaves, coarse powderav.oz. Alcohol fl.oz.	2 -
Sugargr.	330
Red winefl.oz.	

Mix the alcohol and wine, macerate the leaves in 4 fluidounces of this mixture in a moderately warm place for 24 hours, then transfer to a glass percolator, pass remainder of liquid slowly through the drug, and in the percolate dissolve the sugar.

#### Marienbad Reduction Pills.

Potassium bromide1	0
Sodum bicarbonate	0
Extract of squill	0
Guaiac	0
Senega	
Extract of taraxacumsufficier	

Divide into pills weighing 21/2 gr. each .- D.

#### Marrol.

This is said to consist of ox marrow, malt extract, and hop extract.-Coblentz.

#### McLean's Strengthening Cordial.

A similar preparation is said to be made as follows (Fenner's Form.):

Gentian av.oz	. 8
Columboav.oz	. 8
Orange peelav.oz	
Corianderav.oz	. 1
Serpentariaav.oz	
Cardamomav oz	
Whiskeypints	
Glycerin fl.oz	
Watersufficie	ent

Mix the drugs, grind to powder and percolate with the whiskey mixed with the glycerin, and pass through the percolator enough water to make the percolate measure 1 gallon.

#### McMunn's Elixir of Opium.

The official deodorized tincture of opium is similar in character.

#### Medicamentum.

See Haarlem Oil.

# Melachol.

Each fluidram, according to the manufac- Mollosin. turers, contains 85 grains of the combined sodium phosphate, sodium nitrate and citric acid.

According to W. C. Wescott, the following yields a similar preparation:

S	odium nitrategr.	73
C	itric acidgr.	475
	odium phosphate av. oz. 8, gr.	
V	Vater, enough to make fl.oz.	8

The mixture of salts and acid will liquefy and solution will be completed upon the addition of water.

#### Merrell's Vaginal Discs.

Powdered extract of heloniasgr. 12
Powdered extract of hydrastisgr. 12
Powdered extract of henbanegr. 6
Powdered opiumgr. 6
Thymol
Gallic acidgr. 12
Boric acidgr. 36
Tannic acidgr. 24
Alumgr. 36
Eucalyptol

Make into 12 compressed tablets.

#### Mexican Mustang Liniment.

The following makes a similar preparation (N. I.):

Soap	140
Water, warmfl.oz.	14
Oil of turpentinefl.dr.	2
Crude petroleumfl dr.	4
Oil of amber, crudefl.dr.	2
Oil of thymefl.dr.	2
Kerosenefl.oz.	11/2
Caustic potashgr.	12

Dissolve the soap in the water and incorporate with the other ingredients.

#### Micajah Medicated Uterine Wafers.

This formula for a similar preparation has been contributed to a medical journal (W. D.):

Mercury	bichloridegr.	12
Zinc sulp	phategr.	5
Bismuth	subnitrategr. 1	15
Acacia	gr.	5
Carbolic	acidgr.	3

#### Migranin.

Citric acid.	 .,	 .,	 4	 	 				÷	.part	1
Caffeine							5			parts	9
Antipyrine							ŝ			parts	90

	wax pe:rolatum							
Lidaia	Perioritan	 1	1	 Î		-	Ztg	

#### Morrison's Pills.

Aloesparts 5	
Jalap resinparts 5	
Jalap rootparts 5	
Marshmallow root parts 5	
Gamboge parts 2	
Scammony	

Divide into pills, each to contain 1/2 gr. aloes. Roll in cream of tartar.-Hager.

# urray's Infallible System Tonic.

Aloes	gr. 50
Cinnamon	gr. 25
Licorice root	
Make into a mass with	

So parts, and put into gelatin capsules.— N. I.

### Eurdock's Liquid Food.

This is said to consist of defibrinated body with 15 per cent of whiskey and various conics and astringents.

#### Naphthocresol.

This is a mixture of phenols and cresols solved in a solution of resin soap.

Naphthol Camphor. (Camphorated Naphthol.)

A syrupy liquid said to be prepared by fusing together 1 part of betanaphthol and 2 parts of camphor.

#### "Nelaton's Suppositories.

Calomel	zr 12
Extract of belladonnag	т. З
Fluid extract of stramoniumn	n. 3
Cacao butterg	
Make into 12 suppositories.	

#### Neurosin.

A French preparation (in syrup or granule form) which contains calcium glycero-phosphate as the active ingredient.—Coblentz.

#### Neurosine.

It is claimed that each fluidram contains 5 grains each of c. p. bromides of potassium, sodium and ammonium,  $\frac{1}{2}$  grain bromide zinc,  $\frac{1}{44}$  grain each of extract belladonna and cannabis indica, 4 grains extract lupuli, and 5 minims fluid extract cascara, with aromatic elixirs. The formula below, based on the foregoing is for a similar preparation:

Potassium bromide	gr.	640
Sodium bromide	ζТ.	640
Ammonium bromide	r	640
Zinc bromide		
Extract of belladonna	ζr.	2
Extract of cannabis indica	zr.	3
Extract of hops	żr.	512
Fluid extract of cascara sagrada fl o	İr.	10 %
Simple elixir, enough to make fl.o	)z.	16

#### Nichol's Compound Tasteless Cod Liver Oil.

See Wampole's Tasteless Cod Liver Oil. tion. - A. B. Prescott.

#### Nichol's Elixir of Bark and Iron.

This preparation contains, according to the manufacturers, calisaya and protoxide of iron. A formula for a similar preparation is Elixir of Cinchona with Iron Protoxide, Part I.

#### Norton's Chamomile Pills.

Extract of aloes, aqueousgr. Extract of gentiangr.	
Oil of chamomiledrops	
Make 60 pills	

Make 60 pills.

# Norwood's Tincture.

This is the same as the official tincture of veratrum viride.

#### Oculine.

A solution in ordinary water containing 1 per cent of boric acid and 5 per cent of glycerin.—Ph. Rundsch.

#### Odol.

Saccharin	gr. 1
Salol	gr. 80
Tincture of vanilla	drops 24
Spirit of peppermint	drops 36
Spirit of cumin	drop 1
Alcohol, enough to make	fl.oz. 4

#### Odontunder.

This contains 1.35 per cent of cocaine hydrochlorate with some carbolic acid, glycerin, oil of rose, and probably alcohol.— Sadtler.

#### Osgood's Indian Cholagogue.

Quinine sulphategr.	120
Fluid extract of culver's rootfl.dr.	2
Saturated tincture of stillingiafl.oz.	4
Fluid extract of mandrake fl.dr.	8
Oil of sassafrasdrops	10
Oil of wintergreen drops	10
New Orleans molasses, enough	
to makefl.oz.	8
-Kilner's Fo	orm.

#### Oxygen Aquæ.

A colorless, odorless and tasteless liquid found to be water.—A. B. Prescott.

#### Oxygen, Compound.

A colorless aqueous solution of ammonium nitrate and lead nitrate, the two salts being in nearly equal proportions, and together forming about three per cent of the solution.—A. B. Prescott.

#### Oxygen, Compound, Green's.

An aqueous solution of ammonium nitrate with a very little lead nitrate.—A. B. Prescott.

#### Oxygen, Compound, Solid.

This is ammonium nitrate.-A. B. Prescott.

# Oxygen, Compound, O'Leary's.

Contains alcohol, chloroform, bitter almond oil, balsam of tolu and red coloring matter.— A. B. Prescott.

#### Ozonized Water.

This is said to contain 1 or 2 parts of potassium permanganate dissolved in 500 parts of water.

# Palmer's Invisible Powder.

This contains talcum with coloring .- Snow.

#### Palmer's Lily White Tablet.

	chalk	
Talcum		av.oz. 23
		-Snow.

# Palmer's Lotion.

A similar preparation is said to be:

Corrosive sublimategr.	8
Alum	2
Waterfl.oz. 1	6

#### Paine's Celery Compound.

A preparation, said to be similar, may be made by the following formula (D, C):

and of the total and total (of or).	
Celery seedav.oz.	2
Red cinchonaav.oz.	1
Orange peel av.oz.	34
	14
	14
Hydrochloric acidm. 1	5
Alcoholfl.oz.	
Glycerinfl.oz.	3
Waterfl.oz.	4
Simple syrupfl.oz.	4

der, mix the acid and the water, add the glycerin and alcohol and in the menstruum so prepared macerate the powder for twenty-four hours; then percolate, adding enough alcohol and water in the proportion given to make 12 fluidounces. Finally add the syrup, and if necessary filter.

#### Pancropepsin.

The Compound Powder of Pepsin, Part I, has the same essential constituents as are claimed for this.

#### Pan-Peptic Tablets.

The composition as stated by the manufacturers is 1 grain each of pure pepsin and pure pancreatin, ¼ grain pure caffeine, and acid lactophosphate of calcium and celery. The formula below will furnish a composition essentially similar:

Pepsingr. 12
Pancreatingr. 12
Caffeinegr. 3
Apiol
Calcium lactophosphate, solublegr. 36
Make into 12 tablets.

#### Papier Fayard.

Powdered cantharides gr.	480
Powdered euphorbiumgr.	240
Alcoholfl.oz.	
Venice turpentine av. oz.	3
White resinav.oz.	41/2

Extract the powdered drugs with the alcohol, melt the resin and turpentine, add the extract, and, with a brush, spread the mixture on paper while still warm.—Pharm.

#### Papine.

This is said to be the anodyne principle of opium, the narcotic and convulsive elements being eliminated, one fluidram representing the anodyne principle of 3% grain of morphine. The following will yield a preparation conforming to these requirements.

Deodorized tincture of opium...fl oz. 31/2 Simple elixir.....fl.oz. 13

#### Parker's Tonic.

The following is similar (N. I.):

The following is shuthar (in it).
Fluid extract of gingerfl.dr. 2
Fluid extract of sassafrasdrops 15
Fluid extract of capsicumdrop 1
Oil of wintergreendrop 1
Sugarav.oz. 1%
Waterfl.dr. 10
Alcoholfl.dr. 13

# Grind the solids to moderately coarse pow- Parsons' Local Anæsthetic.

Chloroformparts 6
Tincture of aconite,
Tincture of capsicum
Tincture of pyrethrumpart 1
Oil of clovepart 1
Camphorpart 1

Dissolve the camphor in the chloroform, then add oil of clove and then the tinctures. --Dr. Parsons.

#### Pasteurine.

This contains oils of cinnamon, eucalyptus, lemon and wintergreen dissolved in alcohol.

Peaco	ck's	Bromi	des.	(Syrup	of	Brom-	
ides,	Com	pound:	Pead	cock.)		Brom-	

Claimed by the manufacturers to contain in each fluidram 15 grains of the combined c. p. bromides of potassium, sodium, calcium, ammonium and lithium. A compound of a similar character is the following:

Potassium bromidegr.	384
Sodium bromidegr.	384
Ammonium bromidegr.	384
Citric acidgr.	
Tincture of vanillafl.dr.	4
Compound tincture of cudbear. fl.oz.	11/2
Simple syrupfl.oz.	3
Water, enough to makefl.oz.	16

Dissolve, let stand for twenty-four hours and filter.

#### Peckham's Balsam.

White	resin	 ÷			÷	×	÷	.av.oz. 4
Oil of	turpentine			 		• :		fl.oz. 4

Melt the resin, remove from the fire, add the oil and mix well together.—Fenner's Form.

#### Pepsin and Wafer Ash.

Pepsin, puregr.	128
Fluid extract of wafer ashfl.oz.	2
Glycerinfl.oz.	8
Water, enough to makefl.oz.	16

# Perl's Antikrinin.

Strontium sulphideav.oz.	
Zinc oxideav.oz.	
Starchav.oz.	
Mentholgr.	20

This is employed as a depilatory.-W. D.

#### Peterman's Roach Food.

According to Dr. Eccles, the following is similar:

Borax					÷					4		.av.oz.	37
												.av.oz.	
Cacao.		 	 									av., oz.	4

#### Petit's Eye Salve.

A similar preparation is the following:

Morphine sulphategr.	11/2
Benzoic acidgr.	4
Ammoniated mercurygr.	48
Zinc oxidegr.	64
White waxgr.	64
Spermacetigr.	192
Olive oilgr.	
Oil of rosemarydrop	1

#### Phenol Sodique.

The following is said to yield a similar preparation (G.M. Beringer):

Coal tarav.oz.	214
Soda, causticgr.	120
Water, enough to makefl.oz.	16

Dissolve the soda in 4 fluidounces of warm water, add the coal tar and thoroughly agitate for a few minutes. Then add the remainder of the water and set aside in a covered vessel in a warm place, frequently agitating, for 7 days. Decant and filter.

#### Phenosalyl.

Carbolic acid			 			÷,			parts 90
Lactic acid		•	 	.,					parts 20
Salicylic acid							.,	 	parts 10
Menthol		 			9				.part 1

Mix by fusing acid and adding other ingredients.

#### Phillip's Phospho-Muriate of Quinine, Compound.

According to the manufacturers' statement, each fluidram contains 1¾ grains of potassa, 1 grain of magnesia, ¾ grain of lime, ⅓ grain of iron, all in the form of phosphates. Further: ¼ grain of quinine hydrochlorate,  $1\frac{1}{20}$  grain of strychnine, 2 grains of free phosphoric acid. The following formula yields a preparation essentially conforming to these requirements:

Compound solution of phos-
phoric acidfl.oz. 8
Sugar av.oz. 10
Quinine hydrochlorategr. 8
Strychnine sulphategr. 1
Spirit of bitter almonddrops 5
Caramel

Dissolve the sugar in the acid solution, add the alkaloid salts previously dissolved in a small amount of distilled water, then the spirit and caramel, and filter.

#### Phospho-Albumen.

Testicles, sheep, sliced.....part 1 Water.....parts 3

Macerate for 12 hours, strain, saturate liquid with sugar and add simple syrup to wake 10 parts. Flavor each 12 fluidounces with 4 fluidrams of spirit of orange. To preserve, a small amount of antiseptic is added.—Stuart.

## Phytoline.

Is the inspissated juice of poke berries after having been touched by frost. Claimed to be prepared by a special process suggested by Dr. W. W. Baxter.

# Pierce's Compound Extract of Smartweed.

The following makes a preparation of smartweed suitable for external application:

Smartweed	av.oz. 5
Alcohol	fl.oz. 24
Water	fl.oz. 8
Camphor	gr. 90
Oil of hemlock	
Oil of sassafras	fl.dr. 2
The second states and a second state of the second states and stat	

Extract the smartweed with the alcohol and water and to the liquid obtained add the camphor and oils.

#### Pierce's Favorite Prescription.

Savingr.	150
Acaciagr.	150
Cinchonagr	150
Agaric	75
Sugargr.	75
Cinnamongr.	75
Tincture of digitalis,	
Tincture of opiumof each. fl.dr.	1/2
Oil of anisedrops	8
Alcoholfl.oz.	2
Watersuffic	ient

Treat the savin, cinchona, agaric, and cinnamon with boiling water to make 8 fluidounces of decoction, add the acacia, sugar, and tinctures, and then the oil previously dissolved in the alcohol.—Hager.

#### Pierce's Golden Medical Discovery.

Lactucariumpart	1
Honeyparts	
Tincture of opium	21/2
Alcoholparts	70
Waterparts	
—Ha	zer.

#### Pinapin.

This is essentially a fermented pineapple juice.—Coblentz.

#### Pinaud's Brilliantine.

The following is said to resemble the original (W. D.):

Castor oil	fl. oz.	1
Sweet almond oil	fl. oz.	7
Glycerin	fl. dr.	3
Jockey club extract		
Alcohol, enough to make	fl. oz.	16

#### Pinaud's Eau de Quinine Tonique.

In a suit in the U. S. Circuit court at Boston concerning its tariff classification, the court was satisfied "that this article contains of absolute alcohol substantially 67 per cent by volume, that the solid residuum, amounting to about 18-100 of 1 per cent, consists principally of an odorifercus resin having a fragrance similar to that of benzoin; a minute trace of quinine sulphate, and also a very small percentage of essential oils, the remainder being water." This substantiates essentially an analysis published some years ago by A. Tscheppe. The following is for a somewhat similar preparation:

Alcohol	fl. oz.	10
Water	fl. oz.	5%
Yellow cinchona	dr.	4
Cochineal	gr.	80
Potassium carbonate	gr.	30
Tincture of benzoin		
Oil bergamot	. drops	30
Oil sweet orange		
Oil rose geranium		

Make a decoction of the cinchona and cochineal, strain, then add the potash and alcohol in which have been dissolved the resin and oils. Filter through pumice.

# Pinkham's (Lydia) Vegetable Compound.

This formula was contributed to D. C., and was said to furnish a product resembling the original:

Cramp barkav.oz.	4
Partridge berryav.oz.	4
Poplar barkav oz.	2
Unicorn rootav.oz.	
Cassia av.oz.	2
Beth rootav. oz.	15
Sugarav.oz.	24
Alcoholfl.oz.	
Watersufficie	nt

Reduce the first six ingredients to powder, add boiling water enough to cover, let stand till cold, and then percolate with water until 5 pints of liquid are obtained. To this add the sugar, bring to a boil, remove from the fire, strain, and, when cold, add the alcohol.

# Pleis' Fit Powders.

	bromidegr.	
Make one j	powder.—Drug Mill.	

#### Piso's Consumption Cure.

Tincture of tolufl.dr. 4	Ł
Fluid extract of lobeliafl.dr.	3
Fluid extract of cannabis indica. fl.dr.	3
Sulphate of morphinegr. 4	Ł
Tartar emetic	Ł
Chloroformfl.dr. 1	1
Essence of spearmintdrops 10	)
Water, hotfl.oz. 8	3
Sugarav.oz. 14	Ł

The fluid extracts, tincture of tolu, chloroform, and essence of spearmint are mixed with sugar, in a bottle. Dissolve the morphine and tartar emetic in the hot water and mix; when thoroughly dissolved, filter.—N. I.

#### Plant's Asthma Cigarettes.

Stramonium leavesav.oz	2
Green tea leavesav.oz.	
Lobelia leavesav.oz. 1	134
Min maintan with a astronated solution	-1

Mix, moisten with a saturated solution of potassium nitrate, and dry.—Ph. Post.

#### Platt's Chlorides.

A similar preparation, according to Dr. Tscheppe, is the following:

Aluminum sulphateav.oz.	
Zinc chlorideav.oz.	
Sodium chlorideav.oz.	
Calcium chlorideav.oz.	
Water, enough to makefl.oz.	32

Dissolve the calcium and aluminum salts separately, mix, allow the calcium sulphate to subside, and in the clear liquid dissolve the other ingredients.

#### Ponca Compound.

Each tablet is said to contain 3 gr. extract of ponca (?). 1 gr. extract of mitchella, ¼ gr. of caulophyllin, ¼ gr. of helonin, and ¼ gr. of viburnin.

#### Potsdam Balsam.

Oleobalsamic mixturefl.oz.	17
Compound spirit of angelicafl oz.	2
Tincture of capsicumfl.dr.	3
Spirit of ammoniafl.dr.	4
and the second se	n

## Powell's Balm of Anise Seed.

This has a composition similar to paregoric. It has but little camphor, a small amount of rhubarb, and some extract of icorice.—N. I.

#### Pozzoni's Complexion Powder.

Talcum						parts	35	
Calcium carbonate								
Bismuth oxychloride					•	parts	8	
						-Sno	w.	

# P. P. P.

This is said to contain the fluid extracts of green poke-root, green prickly-ash bark, stillingia, and sarsaparilla, with compound tincture of gentian, potassium iodide, and simple syrup.

# Pyretine.

Acetanilid	
Caffeinepart 1	
Calcium carbonateparts 2	
Sodium bicarbonateparts 3	
_Walter	

#### Pyrozone.

This is a solution of hydrogen peroxide.

#### Quickine.

Carbolic acidpart	1
Mercuric chloride	50
Alcohol and waterparts	1000
-Ph	Zta

#### Quinquinia.

This is a similar preparation, according to a communication by Dr. Lee to the Phila. Med. and Surg. Reporter:

Quinine alkaloid	
Quinidine alkaloid	per cent
Cinchonidine alkaloid15	per cent
Cinchonine alkaloid25	per cent
Chinoidine	per cent

#### Quina-Laroche.

This is said (Bulletin Societe Royale de Bruxelles) to be prepared as follows:

Red cinchona, coarse powderav.oz. 1	
Water, boiling fl.oz. 1	
Malaga winefl oz. 10	
Diluted alcohol fl.oz. 5	
Watersufficient	
Sugarav.oz. 8	

Macerate the drug with the boiling water for 30 minutes, decant the liquid, add the wine, macerate for 8 or 10 hours, again decant the liquid, macerate the dregs with the diluted alcohol, macerate for a few hours, again decant, mix the three liquids, and wash the marc with enough water to make the entire liquid measure 16 fluidounces. Set this aside for 24 hours, filter, and in the filtrate dissolve the sugar.

The ferruginous preparation is made by adding to the above 8 grains of soluble iron pyrophosphate.

# **R. & H. Three Chlorides.** (Elixir Ferri, Hydrarg et Arsenicum.)

Each fluidram, according to advertisements, contains  $\frac{1}{6}$  grain of protochloride of iron,  $\frac{1}{188}$  grain of bichloride of mercury,  $\frac{1}{188}$  grain of chloride of arsenic, with calisaya alkaloids and aromatics. The Elixir of Chlorides of Arsenic, Iron and Mercury, Part I, is a similar product.

# Radcliff's Great Seven Seals or Golden Wonder Remedy.

The following is supposed by Nat. Drug. to be similar to the original:

Ether	.fl.dr. 6
Chloroform	.fl.dr. 4
Camphorated oil	.fl.dr. 4
Oil of peppermint.	.fl dr. 2
Tincture of capsicum	.fl.oz. 5
Alcohol	.fl.oz. 8

#### Radway's Pills.

Gamboge	gr.	8
Aloes	gr.	80
Jalap	gr.	15
Ginger	gr.	10
Make 80 pills.—Hager.	•	

# Radway's Ready Relief.

Soap liniment	.fl.oz. 8
Tincture of capsicum	.fl.oz. 1
Ammonia water	.fl.oz, 1
Alcohol	.fl oz. 1
—J. J.	Pierson.

#### Radway's Renovating Resolvent.

A similar preparation consists of a vinous tincture of ginger and cardamom, sweetened with sugar.

#### Ransom's Hive Syrup and Tolu.

A similar preparation is composed of about the following (N. I.):

Fluid extract of squill	fl.dr. 2
Fluid extract of senega	
Soluble tincture of tolu	fl.dr. 2
Tartar emetic	gr. 4
Sugar.	
Water, enough to make	

Recamier Preparations.

See Ayer's Recamier Preparations.

#### Resorbin.

An ointment vehicle prepared by emulsif \_\_\_\_\_\_ ing sweet almond oil with yellow wax, gel\_\_\_\_\_\_ tin, and soap.—Coblentz.

# Redlinger's Pills.

Calomel	gr. 80
Resin of jalap	
Soap	
Gentian, powder	
Fennel, powder	
Mucilage of acaciasufficie	

Divide into pills weighing 21/2 grains.-

# **Ricord's Urethral Bougies.**

Zinc sulphategr.	1
Lead acetategr.	2
Morphine sulphategr.	2
Extract of belladonnagr.	2
Extract of eucalyptusgr.	48
Iodolegr.	24
Cacao buttergr.	576

Make into 48 suppositories.

#### Richter's Pain Killer.

Dr. Gerhard states that the following will yield a similar preparation:

Tincture of capsicum, con- centratedfl.oz.	74
Soapgr.	
Waterfl.dr.	10
Water of ammoniafl.oz.	3€
Camphorgr.	180
Oil of rosemaryfl.dr.	1
Oil of lavenderfl.dr.	1
Oil of thymefl.dr.	1
Oil of clovefl.dr.	1
Oil of cinnamondrops	
Caramel sufficient to co	olor

Dissolve the soap in the water, add the solution to the tincture of capsicum, and finally add the other ingredients. Mix thoroughly and filter.

The tincture is made from  $2\frac{1}{2}$  av. ounces of powdered drug extracted with alcohol.

### Robinson's Elixir of Paraldehyde.

This, according to the manufacturers' statements, contains 45 grains of paraldehyde in each fluidounce, dissolved in an aromatic menstruum. The Elixir of Paraldehyde, Part I, furnishes a satisfactory preparation.

#### Receter's Hair Regenerator.

Lead acetate	gr.	18
Lac sulphur		
Glycerin		
Rose water		
	-Ph. R	ec.

#### Botterin

Zinc chloridegr.	10
Zinc sulphocarbonategr.	10
Salicylic acidgr.	
Boric acidgr.	
Citric acidgr.	
Thymolgr.	
Sodium chloridegr.	
Distilled waterfl.oz.	16

The tablets contain one-half the quantities If the solids mentioned above.

#### **Bourke's** Iodine Liniment.

See Giles' Iodide of Ammonia Liniment-D. C.

#### **Boyal Catarrh Cure.**

This, according to N. I., contains about the following:

Common saltparts	98
Carbolic acidparts	1.35
Berberine hydrochloratepart	

#### Royal Germeteur.

II. R. Slack says the following has the same | Sanitas. chemical and physiological properties:

Sulphuric acid	fl.oz.	2
Water saturated with sulph		
etted hydrogen	fl. oz.	1
Common water, enough to mal	cegal.	1

#### Rubifoam.

A similar preparation is given by the following:

White castile soapgr. 2	270
Glycerinfl.dr.	
Simple syrup fl.oz	2
Water fl.oz.	18
Alcoholfl.oz.	13
Tincture of cardamomfl.dr.	2
Tincture of Canada snake root	
(1 in 1¢)fl.dr.	2
Oil of peppermintm.	25
Oil of wintergreenm.	25
Oil of clovedrops	6
Oil of cassia drops	6
Solution of carminesufficient to co	lor

Mix the soap, glycerin, syrup and water, stir well, add the alcohol, then the remainder of the ingredients, let stand a few days, and filter at a low temperature (to avoid separation of any soap).

#### **Ruppert's Face Bleach.**

W. Robertson states that the following makes a similar preparation:

Corrosive sublimategr. 8	
Tincture of benzoinfl.dr. 1	
Water, enough to makefl.oz. 8	

#### Sage's Catarrh Remedy.

Powdered golden sealgr.	40
Indigo gr.	
Camphorgr.	
Carbolic acidm.	20
Sodium chloridegr.	400

Triturate the camphor to powder by aid of a small quantity of alcohol, and mix with it the salt previously reduced to fine powder; rub the indigo and acid together, mix this with the salt and camphor, finally add the golden seal, and mix intimately in a mortar without much pressure, -Pharm.

## Salicylbromanilid.

See Antinervin.

# Salubrin.

Acetic acid, glacialparts	2
Acetic etherparts	25
Alcoholparts	50
Water	23

A similar product may be prepared by passing air through warm oil of turpentine, which is in contact with water -Frerksen.

#### Sanmetto.

This is claimed to be a combination of true santal and saw palmetto in a pleasant aromatic vehicle. The following may yield a preparation similar in therapeutic properties:

Yellow	sandal	woo	<b>d</b>	÷	• •	 av.oz. 1
Saw pa	metto.				•••	 av.oz. 1
Simple	elixir.					 .sufficient

Mix the drugs with 16 fluidounces of the elixir, macerate for several days, agitating occasionally, and filter.

#### Saul's Catarrh Remedy.

This is said to be composed of the following (A. D.):

Compound tincture of benzoin.	fl oz. 2
Tincture of tolu	.fl.oz. 2
Chloroform	. fl.dr. 1
Sulphuric ether	.fl.dr. 1
Aromatic spirit of ammonia	fl. oz. 1
Oil of tar	fl. dr. 1
Alcohol	. fl.oz. 5

#### Saunder's Bloom of Ninon.

Precipitated chalk	 	parts 7
Talcum	 	parts 7
Bismuth subcarbonate		
Zinc oxide		
Starch		
		Snow

#### Saw Palmetto Compound.

Fluid extract of saw palmettofl.oz.	- 2
Fluid extract of corn silkfl.oz.	
Fluid extract of sandalwoodfl.oz.	
Simple elixirfl.oz.	

#### Schenck's Pulmonic Syrup.

H. M. Wilder has claimed this to be substantially its composition:

Wormwcod
Catnip
Tansy
Hyssopav.oz. 1
Hoarhoundav.oz. 1
Hops
Chamomileav.oz. 1
Comfrey
Senega
Elecampaneav.oz. 1
Boil with sufficient water to make, after
straining, 2 quarts, then add:
Gum arabicav.oz. 3
Licorice
One good-sized turnip and finally:
Sugarlbs. 6
Brandy

# Juice of 4 lemons. Schlotterbeck's Compound Hydrastis

# Mixture.

According to statement of composition by the manufacturers, the following furnishes a similar compound:

Rhubarb	gr. 320
Golden seal	
Cinnamon	
Potassium carbonate	
Pancreatin	
Pepsin	gr. 64
Syrup	
Water	
Simple elixir	.floz. 6
Diluted slcohol	.sufficient

Mix the rhubarb, golden seal and cinnamon, reduce to powder and percolate with diluted alcohol so as to obtain 6 fluidounces of percolate. To this add the potassium carbonate and pancreatin, agitate occasionally for 24 hours, mix with the pepsin previously dissolved in the water, filter, and lastly add the syrup and elixir.

#### Schreyer's Toothache Pellets.

Oil of clovesgr.	
Oil of cassiagr.	
Black peppergr.	60
Sodium chloridegr.	
Acaciagr.	60

Make into pellets weighing 8 grains each. Wittstein.

#### Searle's Athlophorus.

Morphine sulphategr.	2
Fluid extract of colchicum seed. fl dr.	1
Fluid extract of guaiacfl.dr.	1
Potassium acetategr.	60
Potassium salicylategr.	60
Diluted alcohclfl.dr.	4
Syrup of squill, enough to make.fl.oz.	6

Make a solution by applying gentle heat.— N. I.

# II.

	gr. 60 gr. 490
Sugar	
Caramer.	

# Scott's Emulsion of Cod Liver Oil.

This is said to contain fifty per cent of cod liver oil, and 6 grains of calcium hypophosphite and 3 grains of sodium hypophosphite to the fluidounce.

#### "Schinseng" (or Ginseng) Elixir.

A proprietary ginseng elixir is described as containing the "active proximate principle of the panax schinseng [Chinese ginseng] in an aromatic essence." A satisfactory Ginseng Elixir may be made as follows:

Fluid extract of ginseng.....fl.oz. 2 Simple elixir....fl.oz. 14

# Seven Sutherland Sisters Hair Grower.

This is said to make a similar preparation (N. I.):

Bay rum.....fl.oz. 7 Distilled extract of witch hazel, fl.oz. 9 Common salt......gr. 60 Diluted hydrochloric acid.....drop 1 Magnesia.....sufficient

Mix the bay rum and witch hazel with some of the magnesia, filter, in the filtrate dissolve the salt, add the acid and filter again if necessary.

## Scheffield's Dentifrice.

White castile soap, powderav.oz.	1
Precipitated chalk	
Carminegr. 4 or	
Sassafras flavoring (as below)fl.dr.	
Glycerin	

Rub the solids well together, add the flavming in small portions during constant tritmation and then glycerin enough to form a mation paste.

#### (Sassafras Flavoring.)

Oil of sassafras	.dr. 5	4
Oil of cinnamon.	.dr. 2	-
Oil of wintergreen	dr.	5
Extract of vanilla.	dr. 4	-
Alcohol		

Shake before using.-D. C.

#### Shiloh's Consumption Cure.

This formula for a similar preparation was contributed to the D. C.:

Chloroformfl.dr.	2
Alcoholfl.oz.	1
Oil of peppermintdrops	10
Oil of tarfl.dr.	1
Morphine hydrochlorategr.	4
Diluted hydrocyanic acidfl.dr.	1
Extract of licoricegr.	120
Tincture of lobeliafl.dr.	- 4
Waterfl.oz.	1
Simple syrup, enough to make fl.oz.	16

#### Sloan's Condition Powder.

Elecampane root, fenugreek,
flaxseed, juniper berries, pop-
lar bark, resin, mustard,
bran, eachparts 8
Licorice root, ginger, sodium sulphate, sodium chloride, sul-
phur, iron sulphate, each parts 6
Gentian, sodium carbonate,
each
Black sulphuret of antimony,
potassium nitrate, coriander,
valerian, each
Sanguinaria, lobelia, podophyl-
lum, dried alum, eachpart 1

# Mrs. Smith's Butter Color.

The following is said to resemble the original (N. I.):

Annatto seed, bruised av.oz.	8
Turmeric	
Ammonium carbonategr.	40
Cottonseed oilfl oz.	7
Lard oilfl.oz.	1

Boil, stirring frequently, until the proper rich color has been attained; then strain and

allow to settle. Only the best material should be used.

#### Simmons' Liver Regulator.

The powder consists of:

Liverwort								•		av. oz.	8
Leptandra										av.oz.	2
Serpentaria .										av.oz.	2
Senna											

The liquid preparation consists of the above extracted with diluted alcohol.

# Smith's Electric Oil.

Linseed oil.	fl.oz. 4
Olive oil.	fl.oz. 8
Sassafras oil	fl.oz. 1
Chloroform	fl.dr. 4
	-Kilner.

#### Smith's Tonic Syrup.

Quinine sulphategr.	30
Cinchonine sulphategr.	30
Fluid extract of podophyllumfl.dr.	2
Compound tincture of cardamom fl, dr.	1/2
a	
Solub'e citrate of irongr.	64
Soluble citrate of irongr. Sugarav.oz.	
	10

A few drops of aromatic sulphuric acid may be added, if necessary, to dissolve the alkaloid salts.—N. I.

#### Somnal.

This is said by the Ph. Rundsch. to be an alcoholic solution of chloral hydrate and urethan.

#### Solution of Chloro-Phosphide of Arsenic.

Arsenous acid	gr. 15
Diluted hydrochloric acid	
Distilled water	
Phosphoric acida	

Dissolve the arsenous acid in the hydrochloric acid and 7 fluidounces of water by the aid of a gentle heat, add the remainder of the water, and then the phosphoric acid.—Fr. Sieker.

#### Steedman's Soothing Powders.

Opium powder	.gr. 8
Ipecac	.gr. 1
Milk sugar	.gr. 8
Rice flour	.gr. 12
M	

Mix and divide into 8 powders.-N. I.

#### Steresol.

A similar preparation is said to be the following:

Shellacgr.	540
Benzoingr.	75
Tolugr.	75
Carbolic acidfl.oz.	
Oil of cinnamonfl.dr.	
Saccharingr.	45
Alcohol, enough to makefl.oz.	16

# St. Jacob's Oil.

Squibb states this contains water, ether, alcohol, turpentine, aconite, and red coloring matter.

The following formula, constructed in conformity with the best information available, may furnish a satisfactory preparation:

Camphor	1
Tincture of aconite rootfl oz.	3
Etherfl.oz. 1	1
Oil of cedar	4
Alcohol enough to makefl.oz. 10	8
Tincture of alkanet enough to colo	r

#### Stoddart's Peerless Liquid.

Bismuth oxychloridegr.	120
Precipitated chalkgr.	240
Glycerinfl.dr.	1
Waterfl.oz.	21/2
C1	

Color and perfume.

#### Stoughton's Bitters.

Gentianav.oz. 1	
Orange peelav.oz. 1	
Columboav.oz. 1	
Chamomileav.oz. 1	
Quassiaav.oz. 1	
Caramelav.oz. 4	
Diluted alcoholfl.oz. 80	

Extract the coarsely powdered drugs by maceration with the diluted alcohol for one week, agitating occasionally, then filter, and add the caramel.

Compound tincture of gentian is also similar.

#### Strong's Arnica Jelly.

See No. VI in Cosmetic Jellies, Part III, for a similar compound.

# Succus Alterans.

See Mc Dade's Succus Alterans.

# Svapnia.

The following is said to make a similar product ( D. S. Dyson):

Evaporate the tincture to 4 fluidounces, remove the vessel from the fire, add the gum and triturate thoroughly, replace the vessel on the fire, and continue evaporation until the liquid is of such a density that it will have a syrupy consistence when cold. Now spread the liquid, while still warm, in thin layers on glass or porcelain plates and set aside to dry.

#### Swan Down.

Orris rootp	arts f	5
Zinc oxide		
Talcum	arts 14	Ł
and the second sec	Snow	

#### Swayne's Ointment.

Precipitate		
Suet		
Lard	 	.av.oz. 3
		-N. I.

#### Syrup of Figs.

I.

in

sugar should be dissolved.

Senna, washed with alcohol av. oz.	4
Clovesgr.	120
Cinnamongr.	
Nutmeggr.	
Sugarav.oz.	8
Water, Alcohol of each suffic	iont

Alcohol.....of each, sumcient

Percolate the senna and spices with a menstruum composed of 1 volume of alcohol and 3 of water, until 8 fluidounces of percolate are obtained, and in the latter dissolve the sugar.

The senna is "washed" by macerating 4 ounces of the leaves in 16 ounces of alcohol for 2 days; after which they are separated from the liquid, dried and powdered. II.

Sennaav.oz.	14
Coriander av.oz.	6
Figsav.oz.	24
Tamarindsav.oz.	18
Cassia pulp av. oz.	
Prunesav.oz	
Extract of licoriceav.oz.	
Spirit of peppermint av.oz.	
Simple syrupgal.	1
Make an aqueous extract of the	solid
gredients in which the required porti	on of

# Sweet Quinine.

A mixture of cinchonine alkaloid with some ammoniated glycyrrhizin—Procter.

# Syrup of Trifolium Compound. (Com-

pound Sy	rup of	Red (	Clover 1	Blossoms.)
----------	--------	-------	----------	------------

Fluid extract of red clover	
blossomsfl.oz,	1
Fluid extract of burdockfl.dr.	4
Fluid extract of berberis aqui-	
foliumfl.dr.	4
Fluid extract of stillingiafl.dr.	4
Fluid extract of poke rootfl.dr.	4
Fluid extract of cascara amarga fl.dr.	4
Fluid extract of prickly-ash	
barkfl.dr.	
Potassium iodidegr.	128
Waterfl.oz.	
Sugar	13

Mix the fluid extracts and the water, let stand for a few hours, filter, and in the filtrate dissolve the sugar and potassium iodide, and strain.

# Tamar Indien.

According to the Repert de Pharmacie, the ingredients are as follows:

Purified tamarind pulpav.oz.	14
Sugar, powderav.oz.	
Milk sugar, powderav.oz.	11/2
Senna, powderav.oz.	14
Anise, powderav.oz.	1/4
Tartaric acidgr.	35
Essence of lemonfl.dr.	1/2
Glycerin	nt
Mix and make into troches.	

#### Tarrant's Compound Extract of Cubebs and Copaiba.

Nelson's "Handbook" gives the following formula for a compound paste of cubebs and copaiba:

Balsam copaibaav.oz.	16
Calcined magnesiaav.oz.	1
Powdered potassium nitrateav.oz.	8
Powdered cubebsav.oz.	48
Oil of wintergreenfl.dr.	4
Honeysufficie	

Rub the copaiba and magnesia well together; then add the cubebs and potassium nitrate, using enough honey to form a paste. Lastly add the wintergreen oil.

#### Thymenthol.

Lister's Antiseptic Solution, Part I, has the same essential constituents claimed for this.

# Tarrant's Seltzer Aperient.

The following gives (N. I.) a similar preparation.

Sodium bicarbonate	parts 17
Tartaric acid	parts 15
Rochelle salt	parts 11

# Thomas' Electric Oil.

This formula for a similar product has been given by L. L. Briggs:

Camphorgr. 1	240
Oil of wintergreen fl.dr.	4
Oil of origanumfl.dr.	4
Chloroformfl.oz.	1
Tincture of opiumfl.oz.	1
Oil of sassafrasfl.oz.	1
Oil of hemlockfl.oz.	1
Oil of turpentinefl.oz.	1
Balsam of firav.oz.	1
Tincture of guaiacumfl.oz.	1
Tincture of catechufl.oz.	1
Alcoholfl.oz.	64
Alkanet	olor

#### Thompson's Eye Water.

Copper sulphategr.	5
Zinc sulphategr.	20
Rose waterfl.oz.	16
Spirit of camphorfl.dr.	2
Tincture of saffronfl.dr.	2
-Kilner's For	m.

#### Thymolyptol.

According to statements of composition by the manufacturers, Lister's Antiseptic Solution, Part I, has about the same essential constituents.

# Tilden's Elixir of Iodo-Bromide of Calcium. Compound.

Compound Elixir of Iodo-Bromide of Calcium, Part I, contains calcium bromide, several iodides, etc.

#### Tobias' Derby Condition Powder.

Tartar emeticav.oz. 1	L
Black antimony av.oz. 10	)
Sulphurav.oz.	5
Potassium nitrateav.oz.	5
Fenugreek av.oz. 20	)
uniper berriesav.oz. 10	)
—Hager	

#### Tolu, Rock and Rye.

Whiskey	 	gal. 1
Rock candy syrup	 fl	.oz. 64
Tincture of tolu	 f	.oz. 2

Mix, allow to stand for several days, and filter.

# Tonic Aphrodisiac Tablets. (Wayne.)

The following formula contains essentially the same ingredients claimed for the original:

Extract of damianagr.	100
Extract of saw palmettogr.	100
Extract of cocagr.	100
Extract of nux vomicagr.	10
Phosphorusgr.	1/2
Make into 100 pills.	

# Tongaline.

According to the statement of composition made by the manufacturers, the following contains the essential ingredients in the required proportion for a similar preparation:

Fluid extract of tongsfl.oz.	8
Fluid extract of black cohosh fl.dr.	4
Sodium salicylateav.oz.	21/2
Pilocarpine salicylategr.	11
Colchicine salicylategr.	ΪÂ
Simple elixir, enough to makefl.oz. 1	16

For all practical purposes the two alkaloids could be replaced by 4 fluidrams of fluid extract of jaborandi and 2½ fluidounces of fluid extract of colchicum seed.

#### Trousseau's Diuretic Wine.

The following furnishes a satisfactory preparation:

Squill	1
Digitalisav.oz.	2
Juniper berriesav.oz. 1	12
Potassium acetate	8
Alcoholfl.oz. 1	6
White winegal.	1

#### Tyree's Antiseptic Powder.

Formula as published by the manufacturer, in parts: Sodium borate, 50; alum, 50; carbolic acid, 5; glycerin, 5; the crystallized principles of thyme, 5; eucalyptus, 5; gaultheria, 5; mentha, 5. The following will probably represent these conditions:

Boraxgr.	200
Alum	200
Carbolic acid, crystallizedgr.	20
Thymolgr.	20
Mentholgr.	20
Oil of eucalyptusm.	20
Oil of gaultheriam.	20

#### Ulyptol.

See. Eulyptol.

## Tropic Fruit Laxative.

According to A. Conrath, the following makes a satisfactory product:

Jalap,	powder	. av. oz. 1
Senna,	powder	.av.oz. 1
Sugar,	powder	. av. oz. 1
Tamari	ind pulp	.av.oz. 6

Make into lozenges weighing 45 gr., coat with chocolate and sugar and wrap in tinfoil.

#### Uncle Sam's Nerve and Bone Liniment.

Oil of origanum	.fl.oz.	1
Oil of rosemary.	.fl.oz.	1
Oil of amber	.fl.oz.	1
Oil of hemlock	.fl.oz.	1
Oil of turpentine	. tl.oz.	16
Linseed oil		

#### Upham's Asthma Remedy.

Stramonium leavesav.oz.	8
Skunk cabbageav.oz.	8
Lobelia herbav.oz.	
Potassium nitrateav.oz.	4
Waterfl.oz.	

Mix the three drugs, reduce to powder, add the potassium, salt previously dissolved in the water, and dry the whole.—Kilner.

#### Uricedin.

Sodium chloride	parts	4
Lithium citrate	parts	5
Sodium citrate		
Sodium sulphate		

#### Van Buskirk's Sozodont.

The following resembles the original (N. I.):

I. Liquid:	
Alcoholfl.oz.	1
Waterfl.oz.	114
Soapgr.	120
Oil of wintergreendrop	s 2
Fluid extract of red sanderssuffic	ient

Dissolve the soap in the mixture of alcohol and water, add the color, perfume with oil of wintergreen, add enough water to make the fluid measure 3 fluidounces.

П.	Powde	er :
----	-------	------

Infusorial earth (tripoli)gr. 4 Orris rootgr. 15	10 25
Precipitated chalk gr. 2	5
Perfume very lightly with oil of cloves	

#### Van Stan's Stratena.

A good cement of similar nature is the following:

Acetic acidfl.oz.	4
White glue av.oz.	3
French gelatin	40
Shellac varnishfl.dr.	4
Distilled waterfl.oz.	4

Dissolve the glue in the acetic acid with heat, and the gelatin in the water with heat. Mix the two solutions gradually and work until a uniform mixture results; then add the shellac varnish. Mix thoroughly and bottle.

#### Viburnal.

According to the statement of composition by the manufacturers the following contains the essential ingredients of a similar preparation:

Fluid extract of black haw fl.oz.	21/2
Fluid extract of black cohosh fl.oz.	21/2
Compound fluid extract of helo-	
niasfl.oz.	5
Simple elixir,fl.oz.	

#### Vin Mariani.

See Mariani Wine of Coca.

#### Vita Nuova.

See Ayer's Vita Nuova.

#### Walker's Vinegar Bitters.

A decoction of aloes, guaiac, sarsaparilla, cinchona, sassafras and golden seal preserved with acetic acid .- Cooley's Cyclopedia.

#### Wampole's Asparoline Compound.

Each fluidounce, according to the manufacturers, contains: Diluted alcohol; guaiacum, 30 grains; asparagus seed, 30 grains; parsley seed, 30 grains; black-haw (bark of root), 60 grains; henbane leaves, 6 grains. The following formula is based upon the foregoing:

Guaiac	
Asparagus seed	
Parsley seed	1
Black-hawoz.	3
Henbane	8
Diluted alcohol enough	1

Reduce the drugs to powder and percolate with diluted alcohol enough to obtain 16 fluidounces of percolate.

#### Wampole's Tasteless Cod Liver Oil.

A preparation of Cod Liver Oil, combined

cherry, and compound syrup of hypophosphites with iron and manganese. Containing the curative agents from 25 per cent of cod liver oil, and rendered pleasant by aromatics. A preparation with essentially these ingredients and proportions is the following:

Morrhuolgr.	64
Fluid extract of wild cherryfl.oz.	2
Fluid extract of licoricefl.oz.	3
Glycerinfl.oz.	1
Simple syrupfl.oz.	1
I luid extract of maltfl.oz.	6
Compound syrup of hypophos-	
phites, with iron and man-	
ganesefl.oz.	3
Fuller's earth, powdergr. \$	240
Caramel sufficie	

Mix the morrhuol with the glycerin and triturate with the fuller's earth; add the fluid extracts, syrup and malt, shake well, let stand for a day, agitating occasionally; filter, and to filtrate add the syrup of hypophosphites and sufficient caramel to color.

#### Warner's Safe Cure.

The following is said to produce a similar preparation:

Potassium nitrate, powderav.oz. Liverwortav.oz. 1	34
Liverwortav.oz. 1	5
Watersufficient	
Alcoholfl.oz. 2	
Glycerin fl.oz. 1	1/2
Spirit of wintergreendrops 40	

Infuse the liverwort with 16 fluidounces of hot water for 2 hours, strain and filter. Dissolve the potassium nitrate in the liquid; when cold add the alcohol, glycerin and spirit of wintergreen, and make up the measure to 16 fluidounces with water.

#### Warner's Safe Pills.

According to the examination of the Dresden (Germany) Health Department, each pill contains 134 gr. of aloes.

#### Wayne's Diuretic Elixir.

"Elixir of Buchu, Juniper, Uva Ursi and Potassium Acetate," Part I, contains the essential ingredients of a similar preparation.

# Wei de Meyer's Catarrh Cure.

This consists largely of sodium bicarbonate.-N. I.

#### Weinmann's Dental Anæsthetic.

This contains about 534 per cent of cocaine, hydrochlorate, also alcohol, oil of pepperwith extract of malt, fluid extract of wild mint and iodine (indicating possibly aristol).

# Watt's Anti-Rheumatic Pills.

A similar preparation is made as follows:

Aloes				.gr.	240
Gamboge				.gr.	240
Hellebore				.gr.	120
Calomel				.gr.	30
Guaiac				.gr.	30
Yellow sulphide of antim	on	у.		.gr.	15
Oil of clove					
Soap				gr	. 60
Spirit of camphor			. 5	suffic	ient
Make into 5-gr. pills.					

# Weld's Syrup of Chloride of Iron.

The following makes a non-astringent syrup containing iron chloride:

Solution of chloride of ironfl.dr. 4	£.
Glycerinfl.oz, 19	1
Citric acidgr. 80	1
Water,	
Ammonia water of each, sufficient	ŧ.

Mix the solution of iron with the glycerin, dissolve the acid in 1 fluidounce of water, mix the two solutions, add ammonia water until the liquid is only feebly acid, and add the remainder of the water.

#### Whiteley's Nipple Wash.

The following is said to be a good wash:

Boraxgr.	40
Tanningr.	10
Glycerinfl.oz.	1
Rose water fl.oz.	1

# Winslow's Soothing Syrup.

The following, contributed to the D. C., is said to furnish a similar preparation:

"orphine sulphategr.	1
Sodium carbonategr.	2
Syrup, simplefl.oz.	3
Waterfl.oz.	1
Spirit of fennelfl.dr.	2

#### Wistar's Balsam of Wild Cherry.

Fluid extract of wild cherryfl.oz.	1
Fluid extract of ipecac fl.dr.	2
Fluid extract of squill fl.dr.	2
Tincture of opiumfl.dr.	1
Tartar emeticgr.	2
Sugar-house syrup fl.oz.	3
Alcoho!fl.dr.	
Spirit of anisedrops	10
Compound tincture of cudbear,	
Water, of each, enough to make fl.oz.	8
-N.	I.

# Wither's Antizymotic Solution.

The following contains the same essential ingredients as were found by Bierbach's analysis in the original:

Corrosive sublimategr.	16
Aluminum chloridegr.	6
Zinc chloridegr.	
Potassium chloridegr.	
Sodium chloridegr.	
Hydrochloric acidm.	
Water, enough to make fl.oz.	16

# Woolbridge's Treatment of Typhoid Fever.

This method of treatment of typhoid requires the employment of the three formulas:

I. (Tablets.) Podophyllin	11111
II. (Tablets.)	
Guaiacol carbonate gr. Menthol	1814141818
III. (Capsules.)	
Guaiacol carbonategr. 3 Thymolgr. 1 Menthol gr. Eucalyptolm. 5	1/2
IV. (Tablets for children.)	
Podophyllin	1014 18
V. (Capsules for children.)	
Guaiacol carbonategr. Thymolgr Mentholgr. Eucalyptolm. 1 Olive oilsufficient	18

#### Wright's Face Powder.

Snow gives the following for a similar preparation:

Talcum	av.oz. 30	)
Starch	av.oz. 40	)
Calcium sulphate	av.oz. 48	3
Bismuth oxide	av.oz. 1	Ċ.

# PART IV.

# **VETERINARY** PREPARATIONS.

Many of the formulas here offered, such as these for condition powders, liniments, poultry powders, etc., may be kept on hand in convenient form to be offered for counter sale.

# SECTION I.-HORSE MEDICINES.

The following doses are intended for grown horses, since foals generally require treatment only for those diseases which are peculiar to foals. As a general rule the quantities ordered may be adjusted to suit the age of the animal, according to the following proportions: For a colt 1 year old, 25 per cent of the full dose; for a 2-year old, 50 per cent, and for a 3- or 4-year old, 75 per cent of the full dose.

#### Anæmia Medicines.

Anæmia is often due to lack of exercise in the open air; this condition is most marked in young animals. It may also be due to improper food. Treatment consists in iron and arsenic, giving green food if possible, and indulging in light exercise in the open air.

Sulphurav.oz.	2
Potassium bicarbonateav.oz.	
Sodium chlorideav.oz.	20
Give one tablespoonful with each mea	1

#### II.

I.

Sulphurav.oz.	2
Antimony sulphideav.oz.	
Ferrous sulphateav.oz.	1
Calamusav.oz.	2
Sodium sulphateav.oz.	6
Sodium chlorideav.oz.	8
Reduce all to powder and mix well.	

Give one tablespoonful with each meal.

#### III.

Saccharated iron carbonateav.oz.	6
Manganese saccharateav.oz.	1
Cinnamonav.oz.	1/2
Clovesav.oz.	1/2
Calamus, in No. 8 powderav.oz.	5´
Sodium chloride (common salt). av. oz.	7
Sodium sulphateav.oz.	20
Reduce all to powder and mix well.	
Give one tablespoonful at every meal.	•

IV. Fowler's solution.

Give one tablespoonful once daily upon bread.

#### Appetite, for Loss of.

Loss of appetite is often the result of disorders of digestion and may be the accompaniment or precursor of other diseases. The following remedies may be of value:

#### I.

Crude tartar (argols)	av.oz. 1
Antimony sulphide	av.oz. 1/2
Calamus root	av.oz. 4
Gentian	av.oz. 4
Juniper berries	av. oz. 4
Caraway seed	
Mustard seed	av. oz. 2
Rye flour	av.oz. 2
Kye flour Water	. sufficient

Mix the drugs in powder form and add enough water to form a mass or paste.

Spread 1 tablespoonful of this on the horse's tongue 3 times a day.

#### II.

Calamusav.oz.	1
Gentianav oz.	
Gingerav.oz.	
Wormwoodav.oz.	1
Sodium chlorideav.oz.	2
Rye flourav.oz.	2
Tincture of capsicumfl.dr.	
Water or simple syrup, sufficient to form a mass	/-
This is to be used like the preceding.	
1.	
<b>O</b> 11	

Gentian root	
Sodium sulphate	av.oz. 2
Sodium chloride	av.oz. 1
Sodium bicarbonate.	av.oz. 1

Give 2 tablespoonfuls with each meal.

#### IV.

II

Crude tartar (argols)av.oz. Antimony sulphidegr.	1
Potassium bicarbonateav.oz.	1 3,
Gentianav.oz.	134
Caraway seedav.oz.	1)

Mix and divide into 10 powders.

Give 1 once a day mixed with the horse's feed.

V. See also Condition Powders.

#### Blister.

#### I.

Cantharides, fine powderav. Euphorbium, fine powderav. Corrosive sublimateav.	oz.	X
Mercurial ointmentav. Linseed oilflo Sulphuric acidflo	oz. 9 dr. 4	2´` 4
Nitric acid	oz. 1	1
Petroleumfl.		

Add the sulphuric acid gradually to the linseed oil, then add the nitric acid very gradually, and after that the turpentine and petroleum. Let stand for several days, ' decant from residue, and mix with the decanted liquid the mercurial ointment, to which have previously been added the corrosive sublimate, cantharides and euphorbium.

Extreme care must be taken, in mixing the acids and oil, to add the acids very slowly, with constant stirring, to the oil contained in a broad vessel, such as an evaporating dish.

II.

Cantharides, powderav.oz	212
Oil of turpentinefl.oz	11/2
Acetic acidfl.oz	. 1´¯
Lanolinav.oz	5
Petrolatumav.oz	5

Mix the first three and allow to stand for IV. 24 hours, then add the lanolin and petrolatum melted on a water bath and mix, stirring until cold.

#### III.

	Cantharidesav.oz. 1	
	Oil of turpentinefl.oz. 8	
	Water of ammoniafl.oz. 4	
	Olive oilfl.oz. 2	6
	Oil of sassafrasfl.oz. 1	
I	<b>v.</b>	
	Biniodide of mercurygr. 60	,
	Oil of cajuputgr. 60	1
	Petrolatum	,

#### Catarrh, Remedies for Bronchial.

Bronchial catarrh usually begins with fever and is generally accompanied by coughing, and the discharge of purulent matter from the nose. If the dry cough does not soon loosen, and there is no nasal discharge, the fomentations recommended under "Glanders " should be employed. These fomentations should not be continued longer than to a fine powder, and add them to the oils dis-

wise harm may result to the nasal muc membrane. In addition to using the mecines mentioned below, warm applications ns should be bound around the throat around warm drinks should be administered. I.

Ammonium chlorideav.oz. 1 Fenugreekgr. 400 Fennelgr. 400 Marshmallowav.oz. 3 Reduce all to powder and mix well. Give in 2 doses in warm meal or in warm "soft" food.	īn
П.	
Sodium chlorideav.oz. 10 Antimony sulphideav.oz. 2 Fenugreekav.oz. 1 Licorice rootav.oz. 1 All ingredients should be in powder and should be well mixed. Give 1 tablespoonful with each meal.	
III.	
Sodium sulphateav.oz. 4	

Sodium sulphateav.oz. 4
Sodium chlorideav.oz. 4
Sodium bicarbonateav.oz. 2
Licorice rootav.oz. 2
All should be in powder and should be

well mixed.

Give 1 tablespoonful with each meal.

Mercurial ointmentav.oz. Suetav.oz.	2
Hyoscyamus oilav.oz.	
To be applied to the throat every more	ning
and evening.	

#### Carbolic Composition.

Hager has devised the following for veterinary and farmers' use. It keeps sores clean, cures scab and itch, and kills vermin, and is said to keep flies, mosquitoes and such insects from animals:

Benzoinav.oz.	1
	14
Salicylic acidgr.	110
Oil of spikefl.dr.	4
Oil of anisefl.dr.	1
Alcoholfl.oz.	13
Oleic acid, crudefl.oz.	1
Caustic sodagr.	250
Boraxgr.	110
Waterfl.oz.	6
Carbolic acid, crudefl.oz.	80
Rub the benzoin, aloes and salicyli	ic acid

HORSE MEDICINES.

solved in the alcohol. After a day's maceration, add to the mixture the oleic acid, the soda and the borax dissolved in the water, and, lastly, the carbolic acid. Shake the whole well for half an hour, and after a week's maceration in a cool place decant the clear liquid. For use shake well with twice its bulk of water, and add 100 to 120 times its bulk of water, stirring thoroughly. For scab and itch dilution with only 30 or 40 times its bulk is necessary.

#### Cathartic Medicines.

I.

Cape aloesav.oz.	1
Gingergr. 1	20
Potassium carbonate,gr.	60
Gambogegr.	60
Oil of fenneldrops	20

Make into a mass by means of powdered soap and water, roll into a cylinder about 2 inches long, and cover with gelatin or with thin paper, like tissue paper, suitably oiled or greased to prevent the adhesion of the mass to the paper.

#### II.

Cape aloesav.oz.	1
Gingergr.	120
Potassium carbonategr.	60
Croton oildrops	10-
Oil of anisedrops	30
Waterfl.oz.	8
Linseed oilfl.oz.	8
Tincture of opiumfl.dr.	4

Powder the aloes and ginger, add the potassium carbonate, mix with the water, add the oils of anise and croton, then the tincture and finally the linseed oil.

To be given at one dose. In cases of unusual weakness or prostration of the animal, the croton oil can be omitted.

In putting up this formula in large quantity for general sale, it would be better to substitute powdered gamboge for croton oil, using in the prescription above named 60 gr.

III. See also Colic Remedies and Constipation Cure.

#### Colic Remedies.

Colic is usually due to obstinate constipation and retention of urine; sometimes it is caused by diarrhœa. If due to the former, purgative and carminative remedies should

be administered. When the bowels and urinary organs begin to act, the colic generally ceases. During the course of treatment it is advisable to rub the back, abdomen and legs with a turpentine mixture until perspiration ensues.

I.

Chlorod	ynefl.oz.	1
Spirit of	nitrous etherfl.oz.	2
Linseed	oilfl.oz.	13

Give at one dose and repeat in 2 hours, if necessary.

#### 11.

Etherfl.oz. Castor oilfl.oz. 1	2
Give at one dose	

#### III.

Aloes ......av.oz. 11/2 Green soap....sufficient to form a mass

Give at one dose as soon as colic appears.

IV,

A.

B.

Oil of turpentine										
Ammonia water.							•		fl.oz.	1
Alcohol		*	+	÷			•		fl.oz,	10

To be applied to the abdomen.

V. Hypodermic injections containing eserine may be employed, instead of internal remedies, to relieve colic due to constipation; these act much quicker than internal remedies.

Eserine : Distilled	sulphategr. 1 waterfl.dr.	1%
	and inject at one doce	1

Dissolve and inject at one dose,

Eserine sulphate gr.	11/2
Pilocarpine hydrochlorategr.	5
Distilled waterfl.dr.	214

Use at one injection. The latter is particularly valuable when the colic is due to obstinate constipation.

When using these injections, the external treatment should be the same as otherwise.

VI.

Creolinfl.dr.	4
Oil of turpentine fl.oz.	2
Aromatic spirit of ammoniafl.oz.	2
Tincture of asafetidafl.dr.	2
Linseed oilfl.oz.	24

For one dose.

VII.

Tincture of opium	fl.o	z. 1
Ether		
Alcohol	fl.o	z. 11/4
Oil of anise	droj	os 30
Give one tablespoonful	every 15	to 30
minutes in a pint of water.	-	

Rub the abdomen and back with straw, wet with oil of turpentine.

VIII.

#### IX.

Tartar emeticgr.	45
Sodium sulphateav.oz.	8
Carawayav.oz.	1
Make one powder, and give one such	pow

der every half-hour until the bowels move,

Magnesium sulphateav.oz.	18
Althæaav.oz.	31/2
Rye flourav.oz.	81/2
Add water or simple syrup to form a r	nass.
Give one-half of this mass and repea	t the

dose in one-half hour.

XI.

Sodium sulphate.....av.oz. 18 Juniper berries, coarse powder.av.oz 3½ Rye flour.....av.oz. 3½ Make into a mass or paste with simple

syrup or glucose. This is to be administered like the preceding. It is to be given when the colic is due to both constipation and retention of urine.

XII. Alum......gr. 300 Althæa......av.oz. 1 Ginger......av.oz. 4

Uniger	×2
White oak barkav.oz.	11/2
White oak barkav.oz. Juniper berriesav.oz.	11/2
All of these should be in powder	

should be formed into a mass with glucose or molasses.

One-fourth of this mixture is to be given every hour. It is of value when the colic is caused by diarrhea.

#### XIII.

Tincture of opiumav.oz.	1
Spirit of peppermintfl.oz.	1
Spirit of nitrous etherfl.oz.	1
Etherfl.oz.	1
Sodium bicarbonategr.	240
Diluted alcoholfl.oz.	4
Linseed oilfl.oz.	4

Mix these substances and dispense in hear vi bottles.

The quantity named can be used at c = nedose if a very severe case, and even repeater ed if the exigency demands it; otherwise, t = heabove recipe can be divided into two doses

## Condition Powders.

These preparations are also known = as "Horse Powders," "Horse and Catt. \_\_\_\_le Food" and "Stock Food." Pharmacise = is frequently dispense preparations of the = is character made by themselves; as titles, the \_\_\_\_\_y may select those given above, also such a \_\_\_\_\_s "Maud S. Condition Powder," "Prairie = ie Condition Powder," "Farmer's Conditions = m Powder," "Arabian Condition Powder,' ""

The following list will be of interest, a solution well as of service, in determining what the ingredients may enter into the composition of a condition powder:

Diuretics and Diaphoretics.—Alum, black antimony, buchu, cream of tartar, pure and crude; juniper berries, lobelia, potassium nitrate, resin.

Expectorants.—Blood root, potassium chlorate, elecampane, licorice root, lobelia, resin.

Tonics. — Iron carbonate, gentian, cinchona, poplar bark, iron sulphate.

Aromatics and Correctives.—Anise, sodium bicarbonate, camphor, cascarilla, capsicum, cumin seed, fenugreek, ginger, grains of paradise, mustard, salt, sassafras.

Emollients and Laxatives.—Aloes, magnesium sulphate, flaxseed meal, sodium sulphate, oil cake meal.

Sedatives.—Asafetid**a, digitalis, skunk cab**bage, valerian.

The usual dose of these powders is about 1 tablespoonful 2 or 3 times daily in food. I.

Black antimonyav.o	z. 8
Sulphurav.o	z. 7
Elm barkav.o	z. 84
Resin	z. 19
Potassium nitrateav.o	z. 1ÿ
Anise seedav.o	

Reduce all to powder and mix well.

### HORSE MEDICINES.

11	
	Elecampaneav.oz. 8
	Fenugreekav.oz. 8
	Linseedav.oz. 8
	Juniper berriesav.oz. 8
	Poplar bark av.oz. 8
	Resinav.oz. 8
	Licorice rootav.oz. 6
	Gingerav.oz. 6
	Sodium sulphateav.oz. 6
	Sodium chlorideav.oz. 6
	Sulphurav.oz. 6
	Copperas
	Sodium carbonateav.oz. 4
	Gentianav.oz. 4
	Black antimonyav.oz. 2 Potassium nitrateav.oz. 2
	Coriander seedav.oz. 2
	Blood rootav.oz. 1
	Lobeliaav.oz. 1
	Podophyllumav.oz. 1
	Dried alumav.oz. 1
IJ	Ι
	Fenugreekav.oz. 16
	Sulphur av.oz. 8
	Cream of tartarav.oz. 4
	Potassium nitrateav.oz. 4
	Licorice rootav.oz. 4
	Black antimonyav.oz. 2
	Gentianav.oz. 1
	Aniseav.oz. 1
	Common saltav.oz. 1
I	
-	the second se
	Sodium chlorideav.oz. 1
	Fenugreekav.oz. 4
	Licorice rootav.oz. 4
	Flaxseed, groundav.oz. 7
	Give 1 ounce daily.
v	and the second se
V	Plack antimony
	Black antimonyav.oz. 1
	Resinav.oz. 1
	Capsicum av.oz. 1 Gentianav.oz. 2
	Gentianav.oz. 2
	Fenugreekav.oz. 2
	Sulphurav.oz. 2 Saltneter
	charpeter
	Cream of tartarav.oz. 2
	Ginger
	Licoriceav.oz. 3
	Dose, one tablespoonful once or twice
da	ıy.
V	
	I.
	I. Gentianav.oz. 16
	Gentian
	Gentian
	Gentian
	Gentian

Dose, one dessertspoonful in the feed,

morning and night.

VII.	
Cream of tartarav.oz.	8
Sulphurav.oz.	8
White resinav.oz.	8
Guaiac resinav.oz.	5
Potassium nitrate	3
Gentianav.oz.	8
Golden sulphuret of antimonygr.	240

Reduce all to powder and mix well.

This powder is to be recommended if an alterative is desired.

# VIII.

1

Elecampaneav.oz.	4
Licorice rootav.oz.	4
Linseedav.oz.	4
Fenugreekav.oz.	4
Resinav.oz.	4
Anise	2
Capsicumav.oz.	2
Gentianav.oz.	2
Potassium nitrateav.oz.	2
Valerianav.oz.	2
Sulphurav.oz.	2
Copperasav.oz.	2
Juniper berriesav.oz.	2
Black antimonyav.oz.	1
Sodium sulphateav.oz.	1
Sodium chlorideav.oz.	19
Ground oil cakeav.oz.	
х.	
Exsiccated iron sulphateav.oz.	5
Cantharidesav.oz.	1
Gingerav.oz.	3
Black antimonyav.oz.	6
Potossium nitrata	5

Ginger	.av.oz
Black antimony	.av.oz
Potassium nitrate	
Sulphur	
Flaxseed	
Gentian	
Cream of tartar	
White resin	
Anise	
Reduce all to powder and mix	well.

#### Condition Powder, Darby's.

Sodium	sulphate	e	 	 .av.oz. 8
				.av.oz. 4
				.av.oz. 4
				.av.oz. 2
Black an	ntimony		 	 .av.oz. 2

Reduce all to fine powder and mix well.

# Constipation Cure.

For constipation, the usual cathartics may be administered. The remedies mentioned under " Colic " as useful in this latter complaint resulting from constipation, may be employed.

See also Cathartics.

#### Cough Remedies.

Coughs should be treated by binding warm applications about the throat or making fomentations as described under "Glanders." If the nasal secretion is too copious, it may be checked by means of a powder containing lead acetate. In addition, the following remedies may be employed:

#### Ι.

Antimony sulphideav.	oz. 1
Licorice root,av.	
Sodium chloride av.	oz. 5

Mix all in powder form.

Give two tablespoonfuls after each meal

#### II.

Sodium chlorideav.oz.	
Antimony sulphideav.oz.	
Buckthorn berries av. oz.	1
Licorice rootav.oz.	1

Mix all in powder form.

Give one tablespoonful after each meal.

Ammonium chlorideav.oz.	31/2
Antimony sulphidegr.	
Crude tartar (argols)av.oz.	11/2
Linseed mealav,oz.	7

Divide into 6 powders and give one of these in a mucilaginous or starchy drink twice a day.

#### IV.

Mustard,	powder.					av. 02.	3
Wheat bra	in	 		• •	 	 av.oz.	24

Stir the mixed powders with sufficient water heated to 70 to 75 degs. C. to make a poultice in the usual manner.

The addition of the mustard makes the poultice somewhat of a counter-irritant, but without being so severe as a strong mustard plaster.

V.

Lead acetate	gr.	45
Sugar	.av.oz.	1
Mix, reduce to powder, and	divide	into
hree parts.		

One of these portions is to be given with food or in drink three times daily.

#### VII.

Camphor, powdergr.	180
Potassium chlorate, powderav.oz.	1%
Belladonna leaves, powder av. oz.	1%
Anise, powderav.oz.	3

Mix and divide into 6 powders.

Give one twice a day in food.

#### VIII.

Althæa av.oz. 4
Licoriceav.oz. 4
Elecampaneav.oz. 2
Kermes' Mineralav.oz. 2
Honey sufficient to form a mass
Divide into 12 balls

IX.

Ipecac						2			1			-5	zr.	60
Squill														
Licorice												- 5	TT.	120

Mix into a ball with syrup or honey.

Χ.

Aconite leaves, powdergr. 360
Digitalis, powdergr. 240
Arsenic
Anise, powder
Mix, and divide into 6 powders.
Give one every night in food.
Phis second is to use full be shown?

This remedy is useful in chronic cough.

#### Diarrhœa Remedies.

Diarrhœa is often the result of "catching cold," but may also be the precursor or accompaniment of other disorders. Mild cases may be cured by giving dry fodder and warming the drinks. In severer cases, aromatic and bitter substances may be administered, and in some cases astringents may be required. Applications should be made to the entire abdomen; the whole body should be rubbed with a brush of straw or hay, and then covered with blankets so as to retain the perspiration produced by the rubbing. This rubbing of the entire body should be repeated every 3 hours.

I.

Alum									.av.oz. 2
Calamus 1	root.		•						.av.oz. 5
									.av.oz. 5
									.av.oz. 5
									.av.oz. 5
water				 			-	*	sufficient

All the drugs should be in powder and enough water should be added to form a paste.

Place a lump, the size of a hen's egg, on

the tongue every 5 hours, between meals. This is intended for mild cases only.	The following may also be recommended: Fluid extract of buchufl.oz. 1
<b>I</b> I.	Fiuid extract of uva ursi,, fl.oz. 1 Sweet spirit of nitre,, fl.oz. 2
Iron sulphate, powderav.oz. ½ Althæa, powderav.oz. 3 Watersufficient to form a mass Divide into two doses, and give these	Potassium         acetate         fl.dr.         4           Gin         fl.oz.         1           Tincture of opium         fl.oz.         1           Glycerin         fl.dr.         12
within 3 hours of each other.	Waterfl.oz. 8 Give 1 or 2 fluidounces at a dose.
This is also intended for mild cases.	It sometimes happens that the animal is
111.	simply afflicted with a slight disturbance of
Oak bark (red or white), pow- derav.oz. 134         Alum, powdergr. 150         Althæa, powderav.oz. 134         Rye flourav.oz. 134         Water sufficient to form a mass or paste	the kidneys, producing what is terined by horsemen and veterinary surgeons, yellow water; for this ailment a simpler remedy is demanded, and the following will prove of service:
Divide into two parts, and give them 5 hours apart. This is also employed in mild cases.	Fluid extract of buchu       fl.oz. 2         Sweet spirit of nitre       fl.oz. 4         Potassium nitrate       av.oz. 1         Anise water       fl.oz. 9
IV.	Give one or two tablespoonfuls at a dose.
Iron sulphate, powderav.oz. 1 Alum, powderav.oz. 1	night and morning, for 8 days, and then in the morning only, for one week.
Oak bark (red or white)av.oz. 2	
Calamus root	Dyspepsia and Indigestion, Reme- dies for. I.
Place a piece the size of a hen's egg upon the tongue every 2 hours. This is intended for severer cases. V.	Sodium chlorideav.oz.       5         Sodium bicarbonateav.oz.       2         Calamus root, powderav.oz.       1         Reduced irongr.       90         Give one tablespoonful with each meal.
Alum, powdergr. 300 Althæa, powderav.oz. 1 Simple syrup or molassessufficient	II. Arsenious acidgr. 36 Potassium bicarbonateav.oz. 2
Make 2 pills, and give them 2 hours apart. This is employed in mild cases.	Wormwood.       av.oz.       2         Sodium sulphate.       av.oz.       2         Mix and divide into 12 powders.
VI.	Give one powder once daily on food.
Tanninav.oz. 1         Althæa, powderav.oz. 1½         Simple syrup, molassessufficient	Eyes, Inflammation of the.
Divide into 3 pills and give 1 pill every	The eye must be protected from bright light; it should be bathed three times daily
evening.	with water not too cold and covered with
This is used in the more obstinate cases.	cloths moistened with lead water. In severe
37 <b>7</b> T	cases, aloes pills should be given sufficient to
VII.	produce purgation, the cheeks should be
Spirit of mustardfl.oz. 2 Oil of turpentinefl.oz. 2 Spirit of soapfl.oz. 4	rubbed with an irritant ointment, and in- stead of using lead water, apply the follow-
Sprinkle half of this on the belly, rub it in	ing solutions:
and cover with a woolen cloth. Repeat in 5	Ι.
hours.	Zinc sulphategr. 15
Divretics.	Distilled waterfl.oz. 15
	Mix and dissolve.
See Remedies for Urinary Diseases.	Fold a cloth so as to form four thick-

•

THE	STAN	DARD	FORMU	LARY.

nesses, lay over the inflamed eye and moisten with the solution; repeat the moistening every 2 hours.

II. Zinc sulphate......gr. 15 Crocated tincture of opium....fl.dr. 1½ Infusion of elder flowers.....fl.oz. 16

Mix and dissolve. Tincture of opium may be substituted for the crocated tincture. The infusion may be prepared from 1 av. ounce of drug; plain water may be substituted, if desired, for the infusion.

This preparation is to be applied like the preceding.

#### III.

Silver nit Distilled						
Min and	discolu					

Drop 2 or 3 drops into the eye once daily after washing with water.

#### Fever Medicines.

Fever in the horse is the result of other diseases. The normal temperature is 37 to 38 degs. C. and may rise in the febrile condition to 40 or even to 41 degs. C.

Potassium nitrate								.av.oz.	1
Sodium sulphate.									
Rye flour		+	+	*	• •		*	, av. oz,	4

Make into a mass or paste with simple syrup, glucose, or molasses.

Give one-half in the morning and the other in the evening.

II.

Sodium	salicyl	at	e.							2	.av. oz.	3
Licorice	root.										.av.oz.	2
Rye flou	Ir.,		• •	÷	•	÷ •	×.	•	• •	•	.av.oz.	2

Make into a mass with water.

Give one-half of this mixture one morning and the remainder the following morning.

#### III.

Quinine sulphate.....av.oz. 1 Althæa.....av.oz. 3

Make into mass with syrup and divide into 4 pills.

Give the four pills during two consecutive days, one each morning and evening.

This medicine is used during malarial or intermittent fever.

IV.

Salol		•					4	ŝ						gr.	300
Althæa.			•									2		gr.	300

Make a mass with simple syrup or glucose and divide into two pills.

Both pills are to be given at one dose.

This remedy is valuable in rheumatic fever.

v.

Form into a mass with simple syrup and divide into two boluses.

Give one bolus in the morning and one in the evening.

These pills are of special value against the fever accompanying influenza, glanders, etc. VI.

Tincture of	aconite rootfl.oz. 1	
Tincture of	veratrum viridefl.oz. 1	
Sweet spirit	of nitrefl.oz. 3	1
	fl.oz. 3	
Water	fl.oz. 8	

Give one-half to one tablespoonful every four or six hours, until the fever abates.

#### Founder, Remedies for.

See Rheumatism.

#### Gall, for Saddle.

I.

11

II

Blisters or galls are brought about by badly fitting harness or saddles, which produce local sores very difficult to cure. The sores should be washed two or three times a day with water; the ointment should then be applied 2 or 3 times daily on clean soft cloths.

Zinc oxideav.oz. 1	
Waterav.oz. 1	
Salicylic acidav.oz.	5
Mutton tallow av.oz. 2	6
Lard av.oz. 5	2
L	
Lead plaster av.oz. 4	
Mutton tallow av.oz. 21	5
Lardav.oz. 3	1
Salicylic acid av.oz.	5
П.	
Tanninav.oz. 1	
Camphor, powderav.oz. 2	
Zinc oxide av.oz. 3	

Mix and sift through a fine sieve.

Sprinkle on the raw or injured surfaces,

after having washed them with tepid water II. and carbolic soap.

Tanninav.oz.	1
Camphor, powderav.oz.	
Golden seal, powderav.oz. Compound tincture of benzoinfl.oz. Glycerin fl.oz.	3/2
Compound tincture of benzoinfl.oz.	6
Glycerin fl.oz.	10

V. A most valuable remedy in veterinary practice for all kinds of sores, bruises, cuts, or whenever the skin is broken is the application of "Friar's Balsam," the compound tincture of benzoin of the U.S. P., and may be profitably put up under some appropriate name and sold by pharmacists.

#### Glanders or Strangles, Remedies for.

This is a rather common disease and may result from contracting cold as well as from infection. Two forms are distinguished, a benign and a malignant form; the remedies mentioned apply only to the former.

The diseased horse is languid, perspires easily, has diminished appetite, and coughs. From the inflamed nostrils flows a discharge, watery at first, later becoming thick and mucous. When the secretion assumes the latter character, a swelling appears in the throat, which interferes with mastication. This swelling will become purulent, break open and discharge, and subsequently will heal, after which the horse appears quite well.

Treatment consists in keeping the animal warm by covering with a woolen blanket, also binding a cloth about the throat. Internally give mild cathartics, and assist the process of the swelling by the application of suitable ointments or even by means of poultices.

#### I.

Antimony sulphideav.oz. 1
Sulphurav.oz. 1
Fennel seedav.oz. 1
Calamus rootav.oz. 1
Juniper berriesav.oz. 2
Rye flourav.oz. 2
Oil of turpentine
Watersufficient to make a confection

Give a mass the size of a duck's egg four times a day.

Antimony sulphide av	.oz. 21/2
Ammonium chlorideav	.oz. 3
Sulphurav	.oz. 3
Juniper berriesav	.oz. 9
Sodium sulphateav	
Rye flourav	
Water sufficient to make a con	fection

Give a mass the size of a duck's egg every two hours.

#### III.

Antimony sulphideav.oz. 1
Sodium sulphateav.oz. 5
Juniper berriesav.oz. 2
Give one tablespoonful with each meal.

#### IV.

Antimony sulphide	.av.oz. 1
Sulphur	
Sodium sulphate	.av.oz. 10
Licorice root	.av.oz. 4
Buckthorn berries, crushed	.av.oz. 4
Mix one tablespoonful with ea	ich meal.

Buckthorn berries, coarse powder. .

av.oz. 2
Anise seedav.oz. 2
Sodium chloride
Sodium bicarbonateav.oz. 1
Strew two teaspoonfuls on each meal.
This is intended for mild cases.

#### VI.

V.

Linseed mealav.oz. 2	1
Chamomile, coarse powder, av.oz. 2	1
Wheat branav.oz. 6	

Mix the above with hot soapsuds, and cover the swelling of the neck with the poultice.

#### VII.

Ammonia liniment ......fl.oz. 4 Oil of turpentine.....fl.oz. 4 Rub the neck with this liniment three times a day.

#### VIII.

Mercurial ointmentav.oz. 3	
Green soapav.oz. 3	
Glycerinfl.oz. 5	
Rub the neck twice a day with this lin	i-
nent.	

# IX.

Ammonium carbonategr.	150
Carbolic acid	14
Oil of turpentinefl.dr.	21/2
Waterfl.oz.	21/2

Put about seven ounces of hayseed into a This is recommended for obstinate cases. basin, pour hot water into it, and to this add THE STANDARD FORMULARY.

the above ingredients; cover the horse's	Hoofs, Preparations for the.
head with a cloth, and stir its contents thor-	Aside from the appearance which it give
oughly, so as to facilitate the liberation of	a horse's hoofs, the occasional use of a goo
the steam. Keep this up for a quarter of	hoof-dressing really promotes the comfort
an hour. Repeat the treatment once each	
	the animal and prevents brittleness of th
day.	hoof. The following are simple and useful
This is employed to promote the nasal	formulas for this purpose:
secretion.	I.
Heave Medicines.	Oil of origanumfl.oz. 1
I	Camphor av.oz. 1
Sodium sulphateav.oz. 10	Lardav.oz. 16
Elecampaneav.oz. 10	Apply twice every week or two.
Lobeliaav.oz. 10	II.
Resin weedav.oz. 10	
Gentian	Tarav.oz. 8
Blood rootav.oz. 3 Tartar emeticav.oz. 1	Tallowav.oz. 8
Alumav.oz. 5	Use like the preceding.
Fenugreek av.oz. 5	III.
Linseedav.oz. 15	Petrolatumav.oz 16
П.	Carbolic acid, crystalgr. 180
	Camphor
Resin weedav.oz. 10	Oil of tarfl.dr. 8
Lobelia <sup>#</sup>	Oil of origanumfl.dr. 1
Sodium sulphateav.oz. 10	IV.
Linseedav.oz. 15	Should there be any disease of the hoof a
Fenugreekav.oz. 5	hoof-bound, etc., the following ointment will
Alum	
Coniumav.oz. 3	produce satisfactory results:
Bloodroot 8	Camphorav.oz. 1 Balsam of firav.oz. 1
Gentianav.oz. 3	Oil of cajuput
Tartar emeticav.oz. 1	Compound tincture of iodinefl.dr. 5
III.	Oil of turpentinefl.oz. 1
Lobeliaav.oz. 2	Lard
Skunk cabbageav.oz. 4	V.
Elecampaneav.oz. 4	
Tartar emeticav.oz. 1	The following cement is useful for cracked
Licorice rootav.oz. 5	boofs:
This may be diluted if desired with linseed	Ammoniacav.oz. 3
meal, fenugreek, or other drugs.	Gum turpentineav.oz. 1
IV.	Gutta perchaav.oz. 6
Balsam of firav.oz. 4	The first two are melted together by mean
Balsam of copaibaav.oz. 4	of a water bath, then added to gutta percha
Calcined magnesiasufficient	previously melted, with constant agitation
Mix the first two ingredients and add	If a black color is desired lampblack may b
magnesia until the mixture is sufficiently	added.
thick to form into balls.	When used the cement should be softene
Give a medium sized ball night and morn-	in hot water and pressed in the hoot crack
ing for a week or ten days.	which has previously been well cleaned.
Heels, Ointment for Cracked.	Indigestion, Remedies for.
Sulphurav.oz. 1	
Lead acetate, powderav.oz. 1/2	See Remedies for Dyspepsia and Indi
Creolinfl.dr. 4	gestion.
Oil of eucalyptusfl.dr. 4	Influenza Remedies
Petrolatumav.oz. 4	Influenza Remedies.
	Influenza Remedies. The early symptoms of this disease and languor and loss of appetite. After one of

# HORSE MEDICINES.

\*

HORDE IN	
two days there is fever and an increased	Liniments.
pulse-rate; the thirst increases while the ap-	These preparations may be dispensed
petite diminishes. Internal and external	under such names as "Horse Liniment,"
remedies are used, the latter being usually of	"Veterinary Liniment," "Barbed Wire Lin-
an irritant character.	iment," "Stable Liniment,"etc.
L	Many of the liniments in Part II may also
Ammonium chlorideav.oz. '8	be used as veterinary liniments.
Potassium nitrateav.oz. 3	1.
Sodium sulphateav.oz. 10	Oil of turpentinefl.oz, 15
Licorice root	Carbolic acid, crudefl.oz. 2
All should be in fine powder and well	Benzine
mixed.	Oil of spikefl.dr. 4
Give one tablespoonful in warm soft food	Camphorgr. 120
three times a day.	Capsicumgr. 120
II.	II.
Camphor, powdergr. 75 Potassium nitrategr. 800	Camphorav.oz. 1 Carbolic acidfl.oz. 1
Aloesav.oz. 1	Oil of origanumfl.oz. 2
Linseed mealgr. 400	Oil of tarfl.oz. 2
Water, sufficient to make two boluses	Crude petroleumfl.oz. 2 Oil of turpentinefl.oz. 12
Give one pill every three hours.	Liquid petrolatumfl.oz. 12
III.	Benzine fl.oz. 16
Alumgr. 150	III.
Tanningr. 40 Licorice, powdergr. 200	Oil of turpentinefl.oz. 16
Simple syrup, sufficient to make bolus	Camphorav.oz. 1
Give one pill every five hours.	Soap (soft or green)av.oz. 2 Watersufficient
This is used for the diarrhoa which often	Mix the soap with about 2 fluidounces of
manifests itself.	water, dissolve the camphor in the turpen-
IV.	tine, mix the two and reduce to the desired
Aloes	consistence by the addition of water.
Dried sodium sulphateav.oz. 31/2	IV.
Linseed mealav.oz. 1½	Oil of turpentinefl.oz. 4
Soft soap (green soap)gr. 800 Simple syrup, enough to form an electuary	Stronger water of ammoniafl.oz. 4
Give in two doses with an interval of two	Olive oilfl.oz. 4
hours.	This preparation is used as a throat lini- ment.
This is used as a purgative if one be re-	
quired.	Mange or Scabies Remedies.
v.	Scabies is most apt to affect old or ill-fed
Oil of turpentinefl.oz. 3	horses and generally appears on the side of the neck, on the shoulder, the back, the hips,
Spirit of camphorfl.oz. 17	at the root of the tail and on the feet.
Sprinkle the abdomen, rub with a wisp of	In all cases the first thing to be done is to
straw, and bind a warm wrap about the ab-	wash the affected parts with a warm solution
domen.	of green soap (medicinal soft soap). The
VI.	animal must also be separated from the
Chlorodynefl.oz. 1	others, and special care taken in feeding and
Spirit of nitrous other flow 9	1

Spirit of nitrous etherfl.oz. 2	Chlorodynefl.o	
Palation of annancian anniate 0 an 0	Spirit of nitrous ether fl.o	Z. 2
Solution of ammonium acetate fl.oz. 2	Solution of ammonium acetatefl.o	z. 2
Waterfl.oz. 10	Water	z. 10

This dose is to be given every three hours during the first stage when there is much shivering.

grooming it.

Í.	
Mercurial ointmentav.oz.	3
Salicylic acidav.oz.	
Lardav.oz. (	81/2
Wash the affected parts with a solution	of

green soap: dry, and apply this ointment once a day.

This ointment is recommended for foot scabies.

11.	
Creosote	fl.oz. 2
Green soap	
Alcohol	fl.oz. 6
Min and some to she of	Yanta di manta afte

Mix and apply to the affected parts after washing and drying them.

III.

Sulphurated potassaav.oz. Green soapav.oz.	34
Green soapav.oz.	11/2
Waterfl.oz.	14
Oil of turpentinefl.dr.	11/2

Dissolve the soap and the potassa in the water by the aid of heat, and then add the oil of turpentine.

Wash the affected parts with a weak soda solution, dry with a cloth, and then moisten with the above wash. Repeat this twice each day.

#### IV.

Pine tarav.oz. 10
Green soap
Alcohol
Sulphurav.oz. 2
Mix with the aid of a gentle heat.

Wash the affected parts with warm soap and water, dry with a cloth and spread this salve on with a brush, repeating the application in eight days. As a rule two applications suffice. The salve or paint eventually falls off of itself.

#### Mosquito Oil.

Carbolic acidfl.oz. 2	È.
Oil of pennyroyal fl.oz. 4	
Spirit of camphorfl.oz. 4	
Oil of tarfl.oz. 8	
Glycerinfl.oz. 4	
Lard oilfl.oz.8	

This is an effective preparation for keeping flies and mosquitoes off horses.

#### Ointments.

Ointments are a class of very useful remedies for the treatment of some of the diseases of stock. Every pharmacist should have on hand, ready for sale, a good veterinary ointment.

	~
Compound tincture of iodinefl.o	2. 2
Camphorav.o	. 2
Oil of sassafrasfl.o	
Lardav.o	

х.	

Camphorav.or.	-
Tanninav.oz. Carbolic acid, crystalav.oz.	14
Carbolic acid, crystal av.oz.	1
Oil of origanumfl.oz.	
Zinc oxideav.oz.	3
Lardav.oz.	16
and the state of the second seco	

III.

Some of the ointments mentioned under "Preparations for the Hoof" and "Remedies for Galls" may also be recommended for general use.

#### Quitter Oil.

Ointment of nitrate of mercury.av.oz. 1 Cottonseed oil.....fl.oz. 3 Mix together by aid of a gentle heat.

### Rheumatism and Rheumatic Inflammation of the Feet (Founder), Remedies for.

This disorder of horses is very common Usually the soft parts of the hoof art affected; the animal then steps with exceeding caution; it lies down mostly when in the stall, and groans frequently; the pulse-rate is increased, and sometimes there is fever.

Purgative remedies should be given, either by the mouth or by enema, and care should be taken that there is a normal flow of urine. Stimulant applications should be made externally. Only half rations should be allowed the sick animal, and the food should be of an easily digestible character.

· · · · · · · · · · · · · · · · · · ·
Camphor, powder av.oz. 4
Potassium nitrate, powderav.oz. 2
Sodium sulphate, powderav.oz. 8
Juniper berries, crushed av.oz. 4
Rye flour av. oz. 31/2
Water
Make into an electuary and mine one fourth

of the whole every five hours.

#### II.

I.

Aloes, p	owo	der.				 av.oz. 1
Sodium	sul	pha	ite,	pow	der.	 av.oz. 8
						. av.or. 3%
Water.						 . sufficient

Make into an electuary, divide into two parts and give three hours apart. This is used when there is fever.

#### III.

Ammonia liniment	
Oil of turpentinefl.oz.	
Rub in well twice daily.	

v.

v.		1
Spirit of camphorfl.oz.	12	
Tincture of capsicumfl.oz.		
Oil of turpentinefl.oz.	¥	

Rub on the lame foot three times a day.

**v**.

I

Benzoic acidav.oz. 31/2	ļ
Sodium sulphate, powderav.oz. 134	1
Sodium sulphate, powderav.oz. 14 Rye flourav.oz. 3½	
Watersufficient	

Make into an electuary and give onequarter of the whole every twelve hours. This is to be given when there is fever.

#### Shoulder, for Lame.

Spirit of soap	fl.oz.	5
Spirit of camphor		
Ammonia water		

Apply several times daily. See also No. V under "Rheumatism."

If the lameness be of a rheumatic character sodium salicylate should be given.

#### Sinews, for Strained.

#### I.

Ammonium chloridefl.dr.	2
Spirit of camphor fl.dr.	2
Spirit of camphorfl.dr. Diluted acetic acidfl.oz.	5
Waterfl.oz.	

Mix and apply on a cloth morning and evening for at least eight days.

#### IT

Tincture of capsicumfl.oz.	3
Alcoholfl.oz.	4
Spirit of camphorfl.oz.	2
Spirit of etherfl.oz.	2
Oil of turpentinefl.dr.	114
Ammonia waterfl.dr.	3
Ammonium chlorideav.oz.	1
Sodium chloridegr.	180
Waterfl.oz.	

Dissolve the salts in the water and add the remaining ingredients.

Shake up the embrocation well. Dilute half a pint of the fluid with pint and a half of water and with this wash the entire length of the leg and then wrap it up in a woolen bandage.

III.

Spirit of ammonia	.fl.oz. 5
Spirit of camphor	.fl.oz. 5
Spirit of ether	
Oil of turpentine	

Use like the preceding.

17

Sodium chloride.....av.oz. 1 Spirit of camphor.....fl.oz. 1 Tincture of arnica.....fl.oz. 2 Water ...... fl.oz. 4 Use this like the preceding. Spavin and Ringbone Cures.

#### Oil of turpentine.....fl.oz. 8 Tincture of iodine.....fl.oz. 8 Crude petroleum...... fl.oz. 1 Oil of rosemary.....fl.dr. 4

#### II.

I.

Oil of turpentine	. fl. oz.	141/2
Alcohol	. fl. oz.	13
Tincture of iodine	. fl. oz.	11
Camphor	av.oz.	11
Oil of sassafras	. fl. oz.	134
Crude petroleum	. fl.oz.	1
Corrosive sublimate	gr.	70

Dissolve the camphor and the corrosive sublimate in the alcohol and add the remaining ingredients.

#### III.

Venice turpentineav.oz.	2
Cantharides, powderav.oz.	2
Euphorbium, powderav.oz.	1
Red precipitateav.oz.	1
Lardav.oz.	24

Mix all, simmer slowly for an hour, avoiding burning or scorching, and pour off the liquid from the sediment.

For ringbone cut off the hair and rub the Ointment well into the lumps once in 48 hours. For spavins, apply once in 24 hours for three mornings. Wash well, previous to each application. with clean soapsuds, rubbing over the places with a smooth stick to remove the thick yellow matter.

#### IV.

Cantharides, powder	.av.oz. 4
Oil of origanum	
Oil of amber	
Oil of turpentine	. fl.oz. 4
Cottonseed oil	
Sulphuric acid.	. fl.oz. 1

Mix all except the acid in a broad, shallow vessel such as an evaporating dish, then very slowly and with constant and rapid stirring add the acid; when the liquid has cooled it may be bottled.

For ringbone or spavin apply with a sponge tied to the end of a stick, until it is

no longer absorbed into the parts; 24 hours afterwards grease well with lard, and in 24 hours more wash off with clean, warm soap- suds. Two' or three applications 3 or 4 days apart may be required.	Precipitated chalk         av.oz3           Sodium chloride         av.oz3           Gentian         av.oz1           Fennel         1
	Reduce all to powder and mix well.
V.	One tablespoonful is to be given with <i>each</i>
Mercurial ointmentav.oz. 3 Salicylic acidav.oz. 1 Lardav.oz. 6	meal. This mixture is directed against ==== <ue cases.</ue 
Rub the spavin daily with the ointment for	
a week.	Thrush, for Running.
This is used only for mild cases.	Wash the hoof daily with soap water, <b>t</b> hen
VI.	apply the following:
Cantharidesav.oz. 2	I.
Euphorbium	Chlorinated limeav.oz. 112 Waterfl.oz. 112
Lardav.oz. 2	I list wash the anceted parts while a
Cottonseed oilfl.oz. 1	tion of soap, rinse with clear water, and Then
Mix, heat for one hour at a temperature of	wash with a solution of chlorinated lime <b>P</b> <sup>re-</sup>
50 to 70 degs. C., and stir constantly until	viously warmed. Then press some oal um
cool.	mist moistened with the solution, into
Apply once daily for three consecutive	opening. Repeat the application once d 📑 aily
days.	II.
<b>Spavin, for Foot.</b> Green soapav.oz. 4 Ammonia waterfl.oz. 1	Alum         1           Copper sulphate         1           Carbolic acid         1           Water         1
Petroleum	Use like the preceding.
Rub daily for one or two days, then omit	
for two days and repeat the application.	Alumav oz Copper sulphateav.oz
Continue this intermittent application until	Pyroligneous acidfl.oz.
the ointment is all used.	Water fl.oz.
Stomach, for Catarrh of the.	Use like the preceding.
I.	IV. Salicylic acidgr. 12
Sodium bicarbonateav.oz. 4 Sodium chlorideav.oz. 4 Sodium sulphateav.oz. 4 Juniper berriesav.oz. 2	Tincture of aloes
Reduce to coarse powder and mix well. Give one tablespoonful with each meal.	water and paint the thrush with the liqu
•	Then moisten some oakum with the tinct
This is employed only in chronic cases.	and press it into the crevices between E
II.	swellings. Apply once a day.
Artificial Carlsbad saltav.oz. 8 Oil cake mealav.oz. 8	Urinary Diseases, Remedies for.
Two tablespoonfuls are given three times	Urinary diseases are usually manifested by
daily in about one and a half gallons of warm	conditions known as polyuria or the voiding
water.	of a large amount of pale urine, and anuris
This, like the preceding, is used only in	or retention of urine. The former is usually
chronic cases.	caused by feeding with decomposed fodder.

.

•

#### I. For polyuria: Camphor, powder.....av.oz. ....8v.oz. 8 Rye flour.... Water.....sufficient to form a mass Give one-eighth of this mass mornings and evenings. If the disease still lingers on the fifth day, the following is recommended: ......av.oz. ½ Camphor .....av.oz. Alum Dippel's oil.....fl.oz. 1 White oak bark.....av.oz. 1 Angelica root.....av.oz. 3 Water.....sufficient Reduce all the drugs to powder and add enough water to form a mass or paste.

Give a piece the size of a hen's egg three times daily spread upon the tongue.

#### п. For anuria:

Juniper berries, crushed ...... av.oz. 5 Chamomile ..... av.oz. 1

Make an infusion by pouring on 6 pints of hot water, allow to stand 15 minutes, and strain, expressing the residue in the strainer.

Administer one-third of this infusion and use the remainder as an enema.

III. See also Diuretic Remedies.

#### Worms, Treatment for.

Poorly-fed animals are more subject to these parasites than well-fed animals. Treatment consists in giving worm medicines and good food.

Ι.	
Oil of tansy fl.dr. 4	
Crude petroleumfl.dr. 4	
Wormwood, powderav.oz. 9	
Asafetida, powder	1/2
Aloes	
Rye flourav.oz. 2	
Water, sufficient to form a mass or pas	ste

Every two hours a piece of the size of a hen's egg is to be spread upon the tongue.

#### II.

Tartar emeticav.oz.	9
Asafetidaav.oz.	5
Gingerav.oz.	4
American wormseed	30
Saltav.oz. &	30
Fenugreekav.oz. 1	6
Mustardav.oz. 1	6
Poplar barkav.oz.	20
Corn mealav.oz. 2	20

Two tablespoonfuls are to be given each been given.

#### III.

Tartar emetic	.av.oz. 1
Aloes	. av. oz. 2
Ginger	.av.oz. 2
Potassium nitrate	.av.oz. 2

Reduce all to powder and mix well.

Give one teaspoonful twice daily in food. IV.

Crude petroleum (black oil)fl.oz.	2
Dippel's oilfl.oz.	2
Levant wormseed, powderav.oz.	
Valerianav.oz.	5

Reduce the drugs to powder and mix with the other ingredients.

A bolus about the size of a hen's egg should be given every two hours.

#### SECTION II—CATTLE MEDICINES.

The doses in the following formulas, when not otherwise specified, are intended for a full grown animal; consequently when the medicines are to be administered to young, small or weak animals a corresponding reduction must be made in the size of the dose, while for unusually large and strong cattle the doses may be increased; for young cattle the following will serve as a general guide to the sedative dose required at different ages:

At one year 25 per cent of the adult dose. At two years 50 per cent of the adult dose.

At three to four years 75 per cent of the adult dose.

#### Appetite, Loss of, Remedies for Ι.

Gentian, J	owder		•			.av.oz.	1
Magnesiu	m sulphat	c.				.av.oz.	10

Mix with one quart of warm water and give for one dose.

#### П.

Sodium	sulphate.		•	•	•	•	•		•	•	•	•	•	.av. (	DZ.	3
Sodium	chloride.	•	•	•		•	•		•		•		•	.av.o	)Z.	8
Linseed	meal	•	•	•	•	•	•	•	•	•	•	•	•	.av.e	)Z.	1

Mix with one quart of lukewarm water and give for one dose.

III.

Sodium bi	carbonategr	. 300
Rhubarb,	powder	. 75

Divide into two doses, and give each dose morning before feeding until four doses have in a cup of chamomile tea or other suitable vehicle.

260 THE STANDAK	D FORMULARY.
Bowels, Remedies for Inflammation of the.         See Remedies for Inflammation of the Stomach and Bowels.         Colic Remedies.         Colic is usually the result of too great indulgence in indigestible food; if not properly attended to may cause death. As a rule, the animal is constipated, is very thirsty, groans, etc. If there is no movement of the bowels within three days, the affection is likely to prove fatal.         Treatment consists in evacuating the bowels by means of purgatives and enemas and subsequently giving stomachic medicines.         I.         Green soap.       av.oz. 4         Linseed oil.       fl.oz. 32         Give one injection as above every hour until the bowels act.         II.         Magnesium sulphate.       av.oz. 8         Linseed oil.       fl.oz. 32         Give one quart every four hours, until all is given, or until the bowels act.         III.       Ginger.       gr. 150         Mustard       gr. 150         Reduce all to powder and mix well.       Give one such powder in a pint of warm	II.         Aloes       av.oz. 1         Linseed meal       av.oz. 2         Sodium sulphate       av.oz. 25         All should be in powder and be well         mixed.         Dissolve this powder in one quart hot         water and allow to cool somewhat before administering.         III.         Aloes, powder         ministering.         III.         Aloes, powder         ministering.         IV.         Rochelle salt         gr. 160         Linseed meal         gr. 150         Give this mixture, which is suitable for         calves only, at one dose in 8 fluidounces of         warm water.         V.         Green soap         Water       gr. 232         Give as an enema every hour until evacuation of the bowels ensues.         VI.         Eserine sulphate       f.dr. 142         Mix and dissolve.         This may be injected subcutaneously to produce an evacuation of the bowels.         Diarrhœa, Remedies for.
water when the bowels have acted and the colic has passed off.	Diarrhœa may arise from a cold or may be merely an accompaniment of other diseases.
Constipation Remedies. Constipation may result from unsuitable food, but may also be the accompaniment of other diseases. Treatment consists in giving purgatives and enemas. I. Antimony sulphide	The remedies used are usually efficient, but it is also necessary to cause the animal to perspire by rubbing and then to cover it warmly. It is also essential to put the sick animal in a warm, comfortable and rocmy stall. The food should be restricted to a little dry feed (good hay, etc.), no green food being permissible and in place of cold water, warm, starchy, or mucilaginous water should be given. I. Nutgalls, powderav.oz. 1% Licorice root, powderav.oz. 1% Give in two doses with an interval of to
ministered every 3 hours in warm chamomile tea or other suitable vehicle.	hours, mixing each dose in a pint of water.
	and the second se

#### II.

Alum, powder.....av.oz. Oak bark (white or red), powder .av.oz. 2

Divide into two doses and administer each dose in one pint of warm water with an interval of four hours between the doses.

#### III.

Opium, powdergr.	150
Peppermint, powderav.oz.	34
Linseed mealav.oz.	1

Give one-half in the morning, the remainder in the evening, in one pint of warm water.

#### Diarrhoea in Sucking Calves, Treatment for.

Wrap up the animal warmly and administer internal medicines as below and also use suppositories to avoid irritating the bowels.

### I.

Precipitated chalk	av.oz. ½
Alum, powder	av.oz. 1/2
Rve flour	
Yolk of eggs	sufficient
Make into five pills.	Give one pill every
five hours.	

II.

Alum, powdergr. 20 Salicylic acidgr. 20	
Rye flourav.oz.	3₄
Watersufficient	
Make this mixture into five pills.	

One pill should be given every five hours. III.

Hydrochloric acid.....fl.dr. 14 Chamomile infusion (1 to 20)....fl.oz.  $3\frac{1}{2}$ In cases of abnormally acid stomach, give the above in two doses with an interval of

five hours.

#### IV

Tanningr.	15
Mutton tallowgr.	45
Cacao buttergr.	135
Mix and form into four suppositories;	inser

One morning and evening after a passage of the bowels, inserting it as far up as can be done with the oiled finger.

#### Eye, Remedies for Inflammation of.

Inflammation of the eye is usually of a catarrhal character caused by the catching of "cold." The eye first appears reddened, of infusion of juniper berries three times a then tears begin to flow, and a mucous sub- day.

stance appears which has a tendency to stick the eyelids together.

Treatment consists in washing with warm milk and applying this solution every hour:

Solution of lead subacetate ..... fl.dr. 3 Distilled water enough to make. .fl.oz. 8

#### Fever Medicines.

Potassium nitrateav.oz.	34
Sodium sulphateav.oz.	8
Cius and half of the chous in and such	

Give one-half of the above in one quart of warm bran water at night.

# II.

I.

Salicylic acidav.oz. Sodium bicarbonateav.oz.	34
Sodium bicarbonateav.oz.	1/2
Magnesium sulphateav.oz.	10
Use like the preceding.	

#### Indigestion Remedies.

The treatment for indigestion is the same as for catarrh of the stomach; hence see Treatment for Catarrh of the Stomach.

#### Jaundice, Treatment for.

Jaundice may emanate from the liver or may result from intestinal catarrh. As in the human subject, it is manifested by vellow discoloration of the mucous membrane of the mouth, of the white of the eye, etc. The urine becomes dark and the feces light colored; the appetite is diminished.

Treatment consists in giving calomel and sodium sulphate and applying irritant ointments in the region of the liver. If no benefit results from this treatment, then the sodium sulphate should be given with aloes, rhubarb and juniper berries.

Sodium bicarbonate	11
Sodium sulphate	10
Juniper berries, crushed av. oz.	
Waterfl.oz.	64
Give half of the above morning and	even-

# ing.

I.

I	•	
	Aloes	
	Rhubarb av.oz. 5	
	Argols (crude tartar)av.oz. 10	
	Calamusav.oz. 10	
	Sodium sulphateav.oz. 10	
	Reduce all to powder and mix well.	

Give one heaping tablespoonful in a quart

#### Lice, Treatment for.

Lice are most apt to trouble young animals, only troubling old ones when they are very dirty.

#### 1.

Green soap	av.oz. 10
Alcohol	fl.oz. 9
Wood alcohol	fl.oz. 1
Crude naphthalin	av.oz. 2
Water	

Heat the whole together until dissolved and then stir until cold.

Kub the places infested by lice thoroughly with the above, and wash off the next day with warm soda solution. When the animal is again dry repeat this operation twice. The lice generally die after the second application.

#### Н.

Raw tobacco (not manufactured)

	 	 	.av.oz. 5
Alcohol	 	 	fl.oz. 10
			fl.oz. 60

Pour the boiling water on the tobacco, allow to stand half an hour, strain and add the alcohol.

Moisten the parts infested with lice, and wash off on the following day with warm socla solution. Repeat the operation three or four times as may be necessary.

## Milk Secretion, Treatment for Diminished.

When diminished milk secretion is not due to age or to disease, the following mixtures will prove useful. They have been dispensed under such names as "Cow Powder," "Milk Powder," and "Pulvis Vaccarum."

#### I.

( araway													•		. a	ıv.	OZ.	. 4
Calamus		,													. a	IV.	oz.	. 4
Sodium c	hloride	۰.													. ส	۱v.	oz.	2
Sulphur															. a	w.	υz.	. 1
Keduce a	ll to p	•	••	l	.1	r	.1	n	d	1	n	i	x	١	N'C	:11		

tax two heaping tablespoonfuls twice daily in one quart of warm beer.

#### 11

••	
Antas	av.oz. 2
ty uncl	av.oz. 2
Antinaany sulphale	av.oz. 4
hadmin a hlaride	av. oz. 4
All hould be in powe	let and well mixed.
the mexico should	be used like the pre-
exiting	

#### III.

Black antimonyav.oz.	
Sulphurav.oz.	2
Fennelav.oz.	1
Carawayav.oz.	1
Juniper berriesav.oz.	1
Sodium chlorideav.oz. 1	10

All should be in powder and well mixed. This mixture should be used like the preceding.

#### IV.

Potassium nitrateav.oz.	1
Alum	1
Sulphurav.oz.	1
Prepared chalkav.oz.	1
Aniseav.oz.	
Fennelav.oz.	5
Buckbean herbav.oz.	5
Sodium chlorideav.oz.	10

All should be in powder and should be well mixed.

Give one or two handfuls with the morning meal.—H.

# Milk, Treatment for Speedy Souring of.

There are conditions of cows when the milk soon becomes sour, in spite of the utmost cleanliness. The following mixture may remove the difficulty:

#### I.

Sodium bicarbonate	312
Precipitated chalkav.oz.	312
Fennelav.oz.	7
Linseed mealav.oz.	7

All should be in powder and should be well mixed.

Give one-half in one quart of warm water, administering the remainder the next day.

#### II.

Fennel	
Linseed mealav.oz. 4	
Sodium chlorideav.oz. 4	
Prepared chalkav.oz. 8	

All should be in powder and should be well mixed.

Two heaping tablespoonfuls should be given twice daily in one pint of warm water.

This mixture should be employed in obstinate cases.

#### **Ringworm**, **Treatment** for

See Treatment for Tetter.

I.

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II

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II

in

I

#### Rheumatism Remedies.

Ammonium chlorideav.oz.	2
Potassium nitrateav.oz.	
Sodium sulphateav.oz.	12

Reduce to powder, mix, and divide into four portions.

This is used as a purgative, one powder being given every three hours in a quart of warm water.

#### II.

When there is fever, sodium salicylate in about 1-ounce doses may be administered every three hours in a pint of warm water.

III.

When there is no fever the following may be recommended:

Arnica flowersav.oz. 3	
Juniper berries, crushed av.oz. 3	
Ammonium chlorideav.oz. 1	
Aloes	
Water, boilingpints 7	

Pour the water upon the arnica and juniper, let stand one-half hour, strain, and in the colature dissolve the remaining ingredients.

Warm one quart of this mixture and give every five hours.

IV.

Oil of	tu	rpentine		2	2					fl.dr.	6
Spirit	of	camphor.	,					ł		fl.oz.	6

This mixture should be applied to the swollen joints every 6 hours.

#### Shoulder Lameness, Treatment for.

Water of ammonia.	fl.oz. 5	
Oil of turpentine		
Spirit of camphor	fl.oz. 10	
Spirit of soap	fl.oz. 10	

Rub well into the lame shoulder three times daily.

# the.

Catarrh of the stomach is generally produced by irregular feeding or indigestible food, without taking sufficient exercise, or from eating large quantities of non-nutritious food.

The treatment consists in the administration of mild laxatives combined with bitter tonics, and of hydrochloric acid.

fed only with easily digestible food, such as flour or bran water.

Antimony sulphide	gr. 300
Argols (crude tartar)	av.oz. 11
Wormwood	av.oz. 2
Sodium sulphate	av.oz. 15
Give one-fourth of the wh	ole every four
ours in a quart of warm wate	г.
ſ. '	
Aloes, powder	av.oz. 1
Sodium chloride	
Linseed meal	
Give one-half in the mornin	×
alf at night, dissolved in on	e pint of warm
ater.	
11.	
Hydrochloric acid	fl.dr. 4
Linseed meal	av.oz. 3
Water	
Give one-half at night and	
the morning.	
This is employed in obstina	te cases.
V.	

Aloes, powdergr.	300
Calamus, powderav.oz.	114
Argols (crude tartar)gr.	300
Antimony sulphide, powdergr.	150
Linseed mealav.oz.	2 -
Waterfl.oz.	32

Give one-half at night and the remainder in the morning, first warming the mixture.

This is employed in chronic indigestion. V.

Calamusav.oz.	1
Linseed mealav.oz.	
Antimony sulphide av.oz.	
Waterfl.oz.	32

Give two-thirds of the mixture, first warming it, administering the remainder after an interval of four hours.

This is also employed in obstinate cases.

#### Stomach, Treatment for Catarrh of Stomach and Bowels, Remedies for Inflammation of the.

It is generally presumed that inflammation of the stomach and bowels is the result either of a cold or of eating some poisonous weed.

The affection is manifested by loss of both appetite and thirst, restlessness, swollen abdomen, constipation, etc.

Warm mashes should be given as food and warm linseed meal water be given in place of During the illness the animal should be cold water to drink. Purgatives containing oil should be given, also enemas, and the belly should be rubbed with stimulant applications.

The following may also be administered: I.

Infusion of chamomile (1 in 10).fl.oz.	
Sodium sulphateav.oz.	10
Linseed oil fl.oz.	26
Salicylic acidgr.	90

Administer one pint every hour until constipation is overcome.

II.

Infusion of chamomile	fl.oz. 82
Linseed meal	
Linseed oil	fl.oz. 32
Give one pint every 2	hours after the

bowels have acted.

III.

Solution of soapfl.oz.	32
Common saltav.oz.	11/2
Linseed oilfl.oz.	3
Give this mixture as an injection	everv

hour until the bowels are relieved.

#### IV.

Linseed oil	fl.oz. 4
Ammonia water	
Oil of turpentine.	fl.oz. 4
Rub the belly with	the above every 8 hours.

#### Tetter or Ringworm, Treatment for.

Tetter usually attacks old, underfed animals where stalls are poorly ventilated and unclean.

The stalls must first of all be thoroughly cleaned, aired and whitewashed with lime, and the affected parts of the animal treated with the following:

Green soapav.oz.	10
Water	
Pine tarav.oz.	5
These in a contract back contil of a contract	

Heat in a water bath until of a uniform consistency.

Wash the entire body of the animal every 2 days with warm soft or green soap solution (1 to 20), rinse with warm water and when the animal is dry rub the above ointment well in under the hair.

#### Throat, Inflammation of.

#### I.

Ammonia liniment.....fl.oz. 8 Oil of turpentine.....fl.oz. 8 Rub the throat three times daily with this mixture and then bind with flannel.

II.

Alumgr.	875
Salicylic acidgr.	24
Honeyav.oz.	1
Diluted acetic acidfl.oz.	2
Waterfl.oz.	

#### Mix and dissolve.

Warm the solution and inject into the mouth every half hour. Or a linen cloth moistened with this solution may be employed to wash out the mouth.

# Udder, Treatment for Inflammations of.

Inflamed udder may result from injury or from cold, or as a result of other diseases. In the first stages, the milk appears normal, subsequently becoming thick and even purulent or bloody.

Treatment consists in gently evacuating the udder mornings and evenings, and limiting the animal to half rations, which should consist of easily digestible food. The udder should be bathed in warm water after milking, and after drying an antiseptic application should be made. If the udder is hot and feverish, the application should contain mercurial ointment. Saline purgatives should be administered internally.

Salicylic acid......gr. 60 Camphorated oil.....fl.oz. 4

Rubber the udder carefully twice daily.

II.

I.

Salicylic acidgr.	40
Mercurial ointmentav.oz.	1
Liniment of camphorfl.oz.	
Apply like the preceding.	

#### III.

Potassium nitrate.....av.oz. 2 Sodium sulphate.....av.oz. 20

Give one-third of the above at morning, at noon and at night in one quart of chamomile infusion or other suitable vehicle.

#### Urine, Treatment for Bloody.

This is generally brought about by eating sour food such as oxalis, either fresh or dried, which is generally the cause to be looked for.

Treatment consists in changing the food. If the disease has been contracted while grazing, change to hay food, or if it has been contracted from dry, place the animal at pasture or give it green food. If the change of  $f \odot od$  alone proves insufficient then use the  $f \odot 1$  lowing:

White leadgr.	45
Sodium acetate	150
Camphor, powdergr.	
Precipitated chalk av. oz.	4

Mix and divide into 6 powders.

Give one powder in a quart of bran mash morning and evening.

#### Worms, Treatment for.

Worms are readily produced by insufficient fceding, and are banished by purgative worm medicines. The important point is to give t he animal but little food on the day previous, and to administer the worm medicine and the purgative at the same time.

Wormwood, powderav.oz.	1
Tansy, powderav.oz.	1
Aloes, powderav.oz.	
Dippel's oilfl.dr.	
Linseed oilfl.oz.	17

Give in two doses, with an interval of five hours.

#### SECTION III-SHEEP MEDICINES.

#### Sheep-Dips.

Carbolic Acid Dip.

Soap.	.av.lb. 1
Crude carbolic acid	
Water	
Dissolve the soap in a gallon	or more of

boiling water, add the acid and stir thoroughly. Keep the mixture well thinned, and do not let it get into the mouth, nostrils or eyes of the sheep. Hold each sheep in the bath not less than half a minute.

Kerosene Emulsion Dip.

Fresh	skir	nme	d	m	nil	k		••	•	•		•	•		.gal.	1
Keros	ene		• •	•		•	•		•	•		•	•	•	.gal.	2

Churn together till emulsified, or mix and put into the mixture a force pump and direct the stream from the pump back into the mixture. The emulsification will take place more rapidly if the milk be added while boiling hot. Use 1 gallon of this emulsion to each 10 gallons of water required.

#### Kerosene Soap Dip.

Soap		•		• •		•	•	•	•	•			•	•					a	v.oz.	16
Water	•	•	•		:	•		•			•	•						•		.gal.	1
Kerosene		•	•	••	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	.gal.	2

Bring the water to a boil and dissolve the soap in it; then add the kerosene and churn until emulsified. Use 1 gallon of this emulsion to 8 of water.

The above are rather prophylactic in their character and are used generally after shearing.

One of the most dangerous of the parasitic diseases of sheep is scab, which may be treated either by rubbing poisonous ointments into the fleece by the hand or by immersing the sheep in aqueous mixtures containing some ingredient which will kill the parasites. When any of the flock are infected, all should be dipped, preferably being first sheared if the season permits it.

Instead of treating the scab by one application, some authorities advise the use of a preliminary dip of alkaline water to soften the scabs, or of oil or glycerin well rubbed in for the same purpose. This is to be followed in two or three days by a poisonous dip. Nearly all advise that the scabs be rubbed with a stiff brush while the sheep is being dipped.

The quantity of dip required for each sheep is variously estimated at from 1 quart to 1 gallon. For small numbers of sheep, say 50 to 100, the larger amount is necessary, while for large flocks, 1 quart for shorn or 2 quarts for unshorn sheep may be allowed. The dip should be kept while in use at a temperature of from 100 to 110 degs. F. The sheep should be dipped again within some 6 or 10 days of the first dipping in order to kill before their maturity any parasites which may have developed from eggs which were left upon the animal at the time of the first treatment, as the dip does not destroy the vitality of the eggs.

The chief poisons used in the dip are tobacco, arsenic and carbolic acid. Of these, tobacco is the favorite, because its use has not been followed by the fatality that has in times past followed the use of arsenic. Carbolic acid is too expensive to be used in large quantities, but is an excellent ingredient when only a few sheep are to be treated. The addition of tar to the dips serves a good purpose, as it is not only healing, but serves an excellent purpose in driving away flies.

Ι.

#### Texas Tobacco Dip.

Tobaccoav.lbs.	30
Sulphurav.lbs.	7
Concentrated lye av. lbs.	
Watergal.	100

Steep the tobacco in three successive portions of water, expressing each time; then add the other ingredients to the liquor, and stir well while in use.

#### Law's Sheep Dip.

Tobacco,av.lbs. 1	6
Oil of tarfl.oz. 4	8
Soda ash or caustic soda av. lbs. 2	0
Soft soapav.lbs.	4
Watergal. 5	0

Steep the tobacco as in the previous formula, and add the other ingredients to the liquor.

#### Zundel's Carbolic Dip.

Crude carbolic acidav.lbs.	3
Caustic limeav.lbs.	2
Potash or lye av. lbs.	6
Soft soap	6
Watergal.	70
Mix and hoil.	

#### Dr. Kaiser's Carbolic Dip.

Tobaccoav.lbs.	1314
Soda ash or caustic soda av.lbs.	8
Freshly slaked limeav.lbs.	4
Soft soapav.lbs.	8
Crude carbolic acid	4
Watergal.	66

Infuse the tobacco in the water, strain, and to the infusion add the remaining ingredients.

The following arsenical preparations are in favor in England:

Arsenical	Sheep-Dip	Paste	(Finlay	Dunn).
Arsenic			av.1	bs. 2
Pearl as	sh	*****	av.1	bs. 2
Soft soa	p		av.1	bs. 2
Sulphur			av.1	bs. 2
This is :	sufficient for	r 125 g	allons of	water.

Arsenical Sheep-Dip Paste (Prof. Simonds),

Arsenic	1
Soft soap av.lb.	
Potassium carbonateav.oz.	
Watergal.	4

Boil the arsenic and potash together in half the water, and dissolve the soap in the other half. This is sufficient for 20 sheep. It should be used warm.

#### Colic Remedies.

Colic in sheep may result from exposure to

cold, from constipation, from overfeeding, or from worms.

Treatment consists in making stimulant applications to the body, and giving purgatives and enemas.

Capsicumgr.	30
Gingergr.	120
Peppermintgr.	150
Linseed mealgr.	150
Sodium sulphate,av.oz.	2

Reduce all to powder, mix well, and divide into four portions.

Give one powder every hour in a cupful of warm coffee or warm beer.

This mixture is useful in the treatment of colic resulting from cold.

#### II.

Castile	soap.		 	 ā.	14		 	gr.	60
Fennel			 	 			 	gr.	120
Linseed									
Chamor	nile	+ 1	 	 			 	gr.	120
Sodium	sulph:	ate	 	 		4.	 av	.OZ.	3

Reduce all to powder, mix well, and divide into four portions.

Every 2 hours, mix one powder with a cupful of warm water, add a tablespoonful of linseed oil, and give the mixture to the animal.

This preparation is advised when the colic is the result of overfeeding.

III.

I.

Mix and divide into 5 powders.

One powder is to be mixed with 8 fluidounces of infusion of chamomile and used as an enema, which is to be repeated every hour.

#### Constipation Remedies.

Constipation of the sheep may result from difficultly digestible food, and may also result from a sudden change of food.

Treatment consists in giving sodium sulphate internally as well as enemas.

Carawaygr.	150
Sodium bicarbonategr.	150
Linseed mealgr.	
Sodium sulphate av.oz.	21/2

Mix all in powder form and divide into three portions.

Stir one into 8 fluidounces of warm water,

acid about one-half cupful of linseed oil, and III. give at one dose; repeat every 3 hours. Zinc sulphate..... ....gr. 20 Infusion of chamomile (1 in 20).fl.oz. 8 ΤT Mix and dissolve. Soap, powder ......gr. 75 Use like the preceding. Mix and divide into 5 portions. Rheumatism Remedies. Stir one powder in 8 fluidounces of warm Treatment consists in bathing, giving purwater and give as an enema every hour. gatives, and applying stimulant liniments to Diarrhœa Remedies. the limbs. Diarrhœa affects old as well as young Ι. animals and may be caused by exposure to Rosemary herb, cut.....av.oz. 31/2 cold, by changing from dry to green food, or Soda ash..... .av.oz. 16 by feeding with decomposed food. Sodium chloride.....av.oz. 64 Mix the above with 12 gallons of hot water, Т allow to stand for 15 minutes, and use for White or red oak bark ...... av.oz. 1 Juniper berries.....av.oz. 1⁄2 bathing. The liquid may be used 2 or 3 Ginger.....gr. 120 times for a bath if warmed each time. Wormwood......gr. 120 Sodium chloride.....av.oz. II. All should be in powder and be well Oil of turpentine.....fl.dr. 4 mixed. Water of ammonia.....fl.dr. 4 Spirit of soap.....fl.oz. 71/2 One tablespoonful should be given three Spirit of camphor.....fl.oz. 71/2 times daily in food. Rub the legs with this mixture twice daily. This is best adapted to older animals. III. п Sodium sulphate.....av.oz. 11/2 Rhubarb.....av.oz. 1 Aloes......gr. 80 Prepared chalk.....av.oz. Linseed oil.....fl.dr. 5 Infusion of linseed (1 in 20)....fl.oz. 7 Calamus.....av.oz. 3 Mix and dissolve. Give one-half at a dose and repeat in 3 All should be in powder, be well mixed, and be converted into an electuary by the hours. addition of mucilage or syrup. This mixture is intended for full-grown A piece the size of a hazel-nut should be animals. given mornings and evenings. IV This is best adapted to lambs. Eyes, Inflammation of the. Infusion of linseed (1 in 20)...fl.oz. 15 The eye should be protected from bright Mix and dissolve. light and should be bathed twice daily; then Give a teaspoonful 2 or 3 times daily the eye waters mentioned below may be used. according to the age of the animal. It is also advisable to administer mild cathar-This mixture is recommended for lambs. tics. Urine, Treatment for Retention of. 1. Tincture of opium.....drops 40 Hemp seed.....av.oz. Lead water.....fl.oz. 8 Magnesium sulphat e..... ...av.oz. 1 Bathe the eye twice daily. Bitter almonds......gr. 90 Juniper berries.....av.oz. 1⁄2 II. Rye flour.....av.oz. 1/2 Reduce all to powder, mix and make an Mucilage of quince seed.....fl.oz. 4 electuary by the addition of water or syrup. Distilled water..... fl.oz. 4 A piece the size of a marble may be given Mix and dissolve. once daily. Use like the preceding.

## Urine, Treatment for Bloody.

The animals should be placed in a warm stall and fed with wholesome dry food. The following may also be given:

Lead carbonate			 • •		av.oz.	1/2
Camphor	 	 	 		av.oz.	1/2
Bitter almond			 		av.oz.	1
Linseed meal			 1.		av.oz.	3
Rye flour			 		av.oz.	5

All should be reduced to powder and be made into a stiff mass with syrup or molasses.

A piece of the size of a hazelnut should be administered once daily.

#### Worm, Remedy for Tape.

Aloes				
Oleoresin of	male fern	 	.gr.	.30
Naphthalin.		 	.gr.	3

Make into a mass with spirit of soap and divide into 2 pills.

The dose for a lamb, 4 to 8 months, is 1 pill given in the morning without giving food; the other pill should be given 8 days thereafter. The dose for lambs only is given, as full-grown animals are rarely affected.

#### SECTION IV-SWINE MEDICINES.

#### Appetite, Treatment for Loss of.

Loss of appetite may be indicative of other diseases, but may also be the result of overfeeding or due to the presence of undigested food.

Treatment consists in changing the food, giving an emetic, and subsequently the powder mentioned below.

1.										
Tartar	emetic						2		.gr.	15
	powder.									
Althæa	root		. ,	 ÷	-				.gr	75

Mix and make into an electuary by means of syrup, molasses or mucilage.

Give at one dose as an emetic.

#### п.

Calamusav.oz. 1
Gentian
Antimony sulphide
Sodium bicarbonate
Sodium chlorideav.oz. 5
Sodium sulphateav.oz. 5

Mix all and reduce to powder. Give a tablespoonful twice daily.

### Catarrh Remedies.

#### I.

Ammonium chloridegr. 150
Antimony sulphidegr. 150
Argols (crude tartar)gr. 300
Licorice rootav.oz. 11/2
Linseed mealav.oz. 11/2
Mix in powder and add syrup or glucose
form an electuary.

Three times daily give a piece about the size of a walnut.

II.

Potassium nitrategr.	150
Sodium sulphate av.oz.	21/2
Linseed mealav.oz.	34
Mix in powder and add syrup or glud	cose to

form an electuary.

Give a tablespoonful every 2 hours.

#### Colic Remedies.

Colic may result from eating difficultly digestible food or poisonous plants, from exposure to cold, or from worms.

Treatment consists in keeping the animal in a warm stall, administering aromatic, stimulating, and purgative remedies, and giving enemas.

#### 1.

Sodium sulphate av. oz.	11/2
Peppermintav.oz.	1/2
Sodium chloridegr.	150
Reduce all to powder and mix well.	

Give one-half of this mixture in 8 fluidounces of weak coffee and repeat the dose in 3 hours.

II.

Chamomileav.oz.	3/2
Peppermintav.oz.	21/2
Green soapav.oz.	21/2
Linseed oilfl.oz.	21/2
Water, boiling fl. oz.	0

Pour the water upon the chamomile and peppermint, let stand for 15 minutes, strain, and add to the colature the remaining ingredients.

Inject 8 fluidounces of this mixture, previously warmed, into the rectum every half hour.

#### Diarrhœa Remedies.

Diarrhœa may result from exposure to cold or from disorders of digestion. If it continues more than 24 hours, treatment is urgently demanded, as it may cause a severer disease

The animal should be kept warm, and astringent and aromatic remedies may be given, and possibly suppositories may be required.

Chamomilegr.	
l'eppermint, cutgr.	150
White or red oak bark gr.	300
Tannic acidgr.	30

Pour on this mixture 16 fluidounces of boiling water and give one-fourth of the infusion every 2 hours.

II.

I.

Ferrous sulphategr.	
Alumgr.	40
Acaciagr.	
Sugar of milkgr.	300

Mix all in powder and divide into 5 parts. Give one powder in a cupful of warm chamomile tea or other suitable vehicle every 3 hours.

#### III.

Rhubarbgr.	
Calcium carbonategr.	150

Mix in powder and divide into 10 portions. One portion is to be given twice daily in a tablespoonful of warm chamomile tea or other suitable vehicle. This remedy is intended for sucking pigs.

IV.

Tannic acidgr.	8
Cacao buttergr.	300
Mix and divide into 5 suppositories.	

After each movement of the bowels, insert one suppository, pushing it as far up into the rectum as possible with the well-oiled finger.

#### Eye, Remedies for Inflammation of the.

Wash the eye 3 times daily with lukewarm water and use the following eye waters: I.

Zinc sulphategr.	36
Tincture of opiumfl.dr.	114
Infusion of chamomile (1 in 50).fl.oz.	16
11.	

Ammonium	chloridegr. '	72
Lead water	fl.oz.	16

#### Hog Cholera Remedies.

Hog cholera, swine fever, or swine plague are the names applied to a group of symptoms produced by three distinct types of disease, quantity as the foregoing.

namely, charbon, contagious pneumo-enteritis and epizootic catarrh, all, however, dependent upon recognized specific germs. The second form, pneumo-enteritis, probably is the one most commonly understood, and it is characterized by an inflamed, ulcerated condition of the alimentary tract, and fetid, bloody discharges-these having determined the popular designation of "cholera."

Prophylaxis consists in keeping the animal in perfect health by insuring proper hygienic food and surroundings. One of the principal, if not the main, cause of the disease is excessive feeding of corn. Corn-fattened animals are not in a physiological condition, as is well understood, and corn, principally consisting of starch, being particularly prone to fermentation, naturally must favor development of fermentative diseases in debilitated Hence corn should largely be organisms. replaced by the grains, bran, peas, beans and other nitrogenous foods, which will produce more muscle and less unhealthy fat. Decaying and fermenting food should not be offered under any condition. Clean, ventilated stalls that will afford protection against inclement weather, but also plenty of exercise in the open air, are prerequisites.

Prophylactic treatment consists in the daily administration of wood or animal charcoal or Potassium chlorate is also iron sulphate. recommended. In fact, experience teaches that the two latter agents are the only ones which proved effective for this purpose or in treating the initial stages of the disturbance. A few formulas are appended.

#### I.

Arsenicav.oz.	1
Antimony sulphideav.oz.	4
Potassium nitrateav.oz.	
Ferrous sulphateav.oz.	16
Sulphurav.oz.	
Madderav.oz.	16

Mix with 12 gallons of slop, and give 1 pint to each hog, the whole being for fifty.

#### II.

Capsicum	1
Madderav.lb.	3
Calcium phosphateav.lb. Wood-ashes, siftedav.lb.	5 10

This may be administered in the same

As soon as an animal develops symptoms of the plague it must be isolated from the herd and surrounded by absolutely antiseptic conditions. Constipation, if present, should be relieved by castor oil or rhubarb. The bowels should be frequently irrigated with warm water; one of the aforementioned prescriptions should be administered; the food should be restricted to well-cooked oat or barley meal gruel, or, if this is not borne, boiled corn starch. Some advise putting a trace of sulphuric acid into the drinking water. For the fever potassium nitrate usually is resorted to. In the convalescent stages tonics must be administered.

When the disease is fully developed there is little hope, and the animal should be killed and buried with quicklime. In England swine fever comes under the contagious diseases act, and treatment is not permitted. The public health authorities must be advised, who destroy the infected animal.

#### III.

Iron carbonateav.oz.	5
Sodium chlorideav.oz.	<b>5</b>
Potassium carbonateav.oz.	5
Sulphurav.oz.	5
Lime	
Magnesium carbonateav.oz. 1	0
Soapav.oz. 1	
Carbolic acidfl.oz.	5

#### Mix well and reduce to powder.

One-fourth av. ounce should be given at each meal, mixed with the food.

#### IV.

Wood charcoalav.oz. 4
Sulphur
Sodium sulphate
Antimony sulphideav.oz. 4
Sodium chlorideav.oz. 8
Sodium bicarbonate
Sodium hyposulphiteav.oz. 8
Reduce all to powder and mix well.

A large tablespoonful for each 200 pounds of animal should be given once daily with food.

### V.

Calcium phosphateav.oz.	16
Chalk	12
Magnesium carbonateav.oz.	4
Capsicumav.oz.	1
Reduce all to powder and mix well.	

Give one tablespoonful three times daily with food.

#### VI.

Iron carbonateav.oz. 5
Potassium carbonateav.oz. 2
Sodium chlorideav.oz. 4
Sulphur 4
Magnesium carbonateav.oz. 4
Wood charcoalav.oz. 4
Soap
Carbolic acidav.oz. 2
Chalk
Reduce all to powder and mix well.
One-half to 1 av.ounce should be given
with each meal.

VII.

Sodium bicarbonateav.oz.	4
Gentianav.oz.	4
Gingerav.oz.	6
Potassium nitrateav.oz.	2
Chalkav.oz.	16
Reduce all to powder and mix well.	
Use like the preceding.	

#### Swine Fever Remedies.

This disease, which is exceedingly contagious and prevalent in many localities, is indicated by an increase in the temperature of the hog from 37 degs. C., the normal temperature in health, to 40 degs. C., sometimes rising as high as 41 degs. C. The other symptoms are highly colored urine, cold extremities, loss of appetite, and constipation. The following treatment is recommended:

A cathartic and diuretic should first be given, consisting of:

Potassium nitrateav.oz.	34
Sulphurav.oz.	15
Magnesium sulphateav.oz.	5
Molassesav.oz.	2
Water, enough to makefl.oz.	20

Mix the sulphur with the molasses, then add the water gradually, in which the salts have previously been dissolved.

Shake the mixture, and give 1 ounce every morning until relieved. This is the dose for hogs of average size; for larger animals the dose should be increased.

For diarrhoea and weakness usually resulting from subsidence of the fever, the following mixture is administered:

Sodium bicarbonateav.	oz. 4
Gentian	oz. 4
Catechu	oz. 4
Cinchonaav.	oz. 4

Reduce all to powder and mix well. From one-fourth to 1 av.ounce of this powder should be given in food. Condition powders should be administered.

In diarrhœa accompanied with an irritable or relaxed condition, the following is recommended:

Opiumgr.	60
Nutgall	
Pimentogr.	
Sodium bicarbonategr.	
Reduce all to powder and mix well.	

The dose is from 30 to 120 grains made into a bolus with molasses.

#### Vomiting, Remedy for.

Prepared chalk	75
Sodium bicarbonategr.	150
Sodium chloride	150
Sodium sulphategr.	
Linseed mealav.oz.	11/2
Mix all in powder and divide into 5	parts.

Give 1 part every 3 hours in a cupful of warm chamomile tea or other suitable vehicle.

#### Worm Medicine.

Sodium sulphate, powderav.oz.	2
Tansy, powdergr.	300
Castor oilfl.dr.	6
Naphthalingr.	
Rye flourav.oz.	34
Mix all and add syrup, glucose of	

lasses to form an electuary.

Give one-fourth of this mixture every 2 hours.

SECTION V-DOG AND CAT MED-ICINES.

The doses and quantities mentioned in the succeeding formulas are intended for dogs of medium weight—about 50 pounds. Larger animals will require proportionately larger doses and smaller ones smaller doses.

Many of the following remedies are adapted for ailments of cats, the dose being somewhat less than for dogs. Pills and liquids are the best forms of medicines to administer to dogs, while powders and liquids are more suitable for cats.

In giving medicines to dogs, open the mouth of the animal and place in it crosswise a small stick of wood, then thrust the pill, capsule or bolus down the throat with the finger; if a liquid, insert the neck of the bot-

" the side of the mouth and hold the head Anoint as to compel the dog to swallow. once daily,

When administering to cats, the powder is best blown through a glass or rubber tube onto the roof of the mouth; the liquid medicine is best poured upon the front paws, which the animal will lick off to clean them.

#### Appetite, Remedies for Loss of.

Dogs are liable to overeating, and this may result in loss of appetite. Treatment consists in giving an emetic and following this with a purgative and stomachic mixture.

1.
Tartar emeticgr. 1/2
White helleboregr. 2
Give this powder at one dose.
II.
Sodium sulphate, driedgr. 90
Sodium bicarbonategr. 30
Rhubarbgr. 30
Calamusgr. 90
Min all in some met inter state

Mix all in powder, make into a mass, and divide into 6 pills.

One pill should be given twice daily.

#### Canker of the Ear, Treatment for.

To effect a cure, treatment must be begun in the early stages of the disease. During treatment, the animal must be prevented from scratching the ear.

Copper st	lphategr. 36	
Alum	gr. 36	
	fl.oz. 4	
Mix and	lissolve,	

Wash the ear out 3 times daily with this liquid by means of a soft sponge.

Lead acetategr. 1	36
Copper acetategr. 1	
Glycerinfl.dr.	
Distilled waterfl.oz.	31/2
Mix and dissolve.	

Use like the preceding.

III.

I.

II.

Silver nit	rate									gr.	18	
Distilled	water.								fl.	oz.	2	
*** * .*		12						8				1

Wash the diseased portions of the ear with this liquid 3 times daily.

IV.

Tannic acidgr. 60	)
Bismuth subnitrategr. 60	)
Simple cerate	

Anoint the diseased portions of the ear nce daily.

<b>v</b> .	IV.
Ointment of red oxide of mercury av.oz. $\frac{1}{2}$	Yellow sulphide of antimonygr. 10
Simple cerateav.oz. $\frac{1}{2}$	Ammonium chloridegr. 36 Purified extract of licoricefl.dr. 4
Use like the preceding.	Syrup of althæafl.oz. 3 5/5
Constipation Remedies.	Give one tablespoonful every 2 hours.
Constipation may result from lack of exer-	V.
cise and may also be caused by eating indi- gestible food, bones for example.	Ammonium bromidegr. 180 Fennel waterfl.oz, 4
Treatment consists in giving an enema	Syrup of licoricefl.oz. 4
containing soap, and purgatives internally.	Give one teaspoonful 4 times daily.
I.	Distemper Medicines.
Green soapgr. 150	I.
Linseed oilfl.oz. 1½ Waterfl.oz. 15	Antimonial powdergr. 21/2
Give one-fifth of this as an enema every	Mercury with chalkgr. 2
half hour, until copious evacuation occurs.	Dover's powdergr. 3 Quinine sulphategr. 1½
II.	Extract of nux vomicagr. 1/8
Calomelgr. 1½	Make into one pill.
Sugargr. 15	Give one such pill 2 or 3 times a week.
Give at one dose.	II. Potassium nitrateav.oz. 4
III.	Sulphur
Aloes	Charcoal
Castor oilfl.dr. 4	Black antimonygr. 40
Water	Reduce all to powder and mix well. Make about 30 grains into a ball with lard
Mix and make an emulsion. Give at one dose.	or butter, and give one such ball in the morn-
IV.	ing and evening.
Syrup of buckthornfl.oz. 1	Diarrhœa Remedies.
Give at one dose.	Decomposed or very fatty food, overeating,
Cauch Medicines	drinking of too cold water, exposure to cold,
Cough Medicines.	etc., are liable to cause diarrhoa.
I. Sodium bromidegr. 180	Treatment consists in keeping the animal warm, rubbing the abdomen with alcoholic
Creosote waterfl.oz. 2	liniments, and giving opium, astringents and
Fennel waterfl.oz. 4	chalk; suppositories may also be of value.
Mix and dissolve.	In feeding give meat, cooked rice stirred with
Give one-half tablespoonful 4 times daily.	yolk of egg, and meat broth.
II. Tincture of belladonnafl.dr. 4	I. Spirit of camphorfl.oz. 2
Syrup of squill	Spirit of juniperfl.oz. 2
Paregoricfl.oz. 1 Water, enough to makefl.oz. 6	Rub the abdomen with this mixture 3 times
Give one teaspoonful 3 times a day.	daily and then inclose the animal in a warm
III.	wrap.
Morphine sulphate	II. .Opiumgr. 15
Bitter almond waterfl.oz. 1	Althæagr. 15
Creosote waterfl.oz. 1	Licorice root
Mix and dissolve. Give 20 drops in a little water 8 times	Mix, make into a mass, and divide into 5
daily.	pills. Give one pill mornings and evenings.
•	

•

# DOG AND CAT MEDICINES.

III.	Eye, Remedies for Inflammation of
Tannic acidgr. 50	the.
Bismuth subnitrategr. 30 Licorice rootgr. 50	In simple inflammation of the eye, give
Mix, make into a mass, and divide into 10	mild cathartics and use one of the eye waters
pills.	mentioned below.
Give one pill 3 times daily.	I.
	Lead acetategr. 10
IV.	Rose waterfl.oz. 2
Bismuth subnitrategr. 15 Extract of rhatanygr. 40	Drop into the eye every hour.
Sugar	II.
Mix and divide into 5 powders.	Zinc sulphategr. 5
Give one powder every 4 hours.	Rose waterfl.oz. 2
V.	Use like the preceding.
Lead carbonategr. 8	III.
Bismuth subnitrategr. 30	Magnesium sulphate,av.oz. 1
Acaciagr. 40	Sodium chloridegr. 150
Sugar	Fennel water
Mix and divide into 10 powders.	Mix and dissolve.
Give one powder every 3 hours.	Give one tablespoonful twice daily.
This mixture is intended for obstinate	IV.
cases.	Sodium sulphate, driedgr. 300
VI.	Sodium bicarbonategr. 75
Rhubarbgr. 75	Sodium chloridegr. 75 Licorice rootgr. 300
Cascarilla	Buckbeangr. 150
Licorice rootgr. 150	Mix all in powder and form into an electu-
Mix all in powder and form into an electu-	ary by the addition of juice of juniper ber-
ary by the addition of mucilage.	ries, or, if this be not at hand, syrup, molas-
Give a piece the size of a hazelnut three	ses or other suitable agent.
times daily.	Give a piece of the size of a hazelnut
VII.	twice daily.
Extract of rhatanygr. 18	Fits, Remedies for.
Cacao buttergr. 180	
Make into six suppositories.	See Epilepsy Remedies.
One suppository should be inserted far up	Mange Remedies.
into the rectum after, each copious evacua-	In addition to using the remedies men-
tion.	tioned below, the kennel should also be thor-
Epilepsy Remedies.	oughly disinfected.
L	I.
Zinc oxidegr. 20	Benzine
Sulphur	Oil of cadefl.oz. 2
Jalap	Coal tarfl.oz. 2
Extract of green helleboregr. 20 Extract of gentian or dandelion	Green soapfl.oz. 2 Oil of turpentinefl.oz. 2
enough to form a mass	Rub the soap and tar together, add the oi
Divide into 60 pills.	of cade, and then incorporate the other in
Give one pill three times daily.	gredients.
II.	Rub this in once daily.
Fluid extract of valerianfl.dr. 1	II.
Syrup of buckthornfl.dr. 3	Salicylic acidgr. 24
For cats-15 to 20 drops every hour or	Lard av.oz. 1
two, with little milk or other food, or on	This ointment is recommended for applica
some herbage like that of catnip.	tion to the head because soap cannot very well
and the second se	

be used in the vicinity of the eyes. It is to	IV.
be applied once daily.	Spirit of camphorfl.oz. 2
III.	Spirit of formic acidfl.oz. 2
Sulphur av.oz. 6	Apply to the painful limbs three times
Ammonium chlorideav.oz. 34	daily and then wrap with a woollen cloth.
Aloes	V.
Lard	Oil of turpentinefl.dr. 1 Spirit of camphorfl.oz. 2
Apply once a day and wash off after four	Spirit of formic acidfl.oz. 2
applications.	Use like the preceding.
IV.	Stomach Catarrh, Treatment for.
Aloes	Dogs are very liable to overeating or to
Mercurial ointmentav.oz. 14 Spirit of turpentinefl.oz. 11/2	eat indigestible or decomposed food, and this
Sulphur	may result in gastric catarrh.
Lardav.oz. 4	Treatment consists in first giving an em-
Apply twice daily.	etic; then a purgative may be administered
V.	unless there is diarrhœa, when medicine must
Sulphurated potassagr. 50	be given to counteract the latter condition.
Creosotefl.dr. 34 Pine targr. 90	I
Cocoanut oilfl.oz. 2	Tartar emeticgr. $\frac{1}{2}$ Ipecac
Cleanse the parts with soft or green soap,	Give at one dose in a spoonful of water.
wash off well, dry, and then apply this oint-	II. ·
ment.	Aloes
VI.	Soap,
Sperm oilfl.oz. 7	Waterof each, sufficient
Kerosenefl.oz. 7 Carbolic acidfl.dr. 3	Mix and make into three pills. Give one pill every 5 hours.
Pine tarav.oz. 1	• •
Sulphurav.oz. 1	III. Tannic acidgr. 15
Apply once daily.	Bismuth subnitrate
Rheumatism Remedies.	Calamusgr. 150
Treatment consists in giving sodium sali-	Reduce all to powder, mix well, and divide
cylate and mild cathartics and applying stim-	into 5 parts.
ulant liniments.	Two hours after the emetic ceases to act
I.	give one powder in a little water, and repeat the dose every 12 hours.
Sodium salicylategr. 192	
Water	Tonic Medicine.
Give one tablespoonful three times daily.	Gentian
II.	Cascarilla
Acetanilidgr. 75 Rye flourgr. 75	Mix and make into a pill.
Mix and make into five pills.	Give one such pill every day.
Give one pill in the morning and one in	Urine, Treatment for Bloody.
the evening.	The usual treatment consists in giving mild
III.	cathartics and enemas.
Sodium nitrategr. 40	I.
Magnesium sulphateav.oz. 1 Solution of ammonium acetatefl.oz. 1	Magnesium sulphateav.oz. 1/2
Waterenough to make fl.oz. 6	Tamarind pulpav.oz. ½ Fennel waterfl.oz. 5
Mix, dissolve and filter.	Mix, dissolve and filter.
Give one tablespoonful every hour.	Give one tablespoonful every 2 hours.
- •	

•

#### II.

Yolk of one egg

Olive oil.....fl.dr. 4 Infusion of chamomile (1 in 20).fl.oz. 16

Make into an emulsion.

In using, warm to about 50 degs. C., and inject 3 fluidounces every three hours.

#### Vomiting, Remedies for.

#### I.

Bismut																
Bitter :																
Althæa	 ••	• •	• •	• •	•	• •	•	ł	•	• •		•	•	•	.gr.	60

Mix all in powder, form a mass, and divide into 4 pills.

Give one pill every 2 hours.

II.

Bismuth subnitrategr. 8								
Opium								
Acacia								
Sugargr. 15								
Mix all in powder form.								

Give the whole at one dose.

III.

Bitter alm	nond	gr. 15
	waterfl.	
Mucilage	of acaciafl.	dr. 4

Give one-half and repeat the dose in 2 hours.

#### Worm Medicines.

Ι.

Oleoresin of n	nale ferngr. 3	0
Aloes	gr. 4	0
Soap	gr. 5	0
Mix and make	into 2 pills.	

Administer both pills in the morning, the animal to remain fasting for some time.

#### II.

Oleores	in of male fern	
Castor	oilfl.dr. 6	
Warm	the mixture and give in the morn	1-
ing, the a	nimal to remain fasting as before.	

#### III.

Santonin	
Glass, fine powdergr. 3	
Areca nut	
Jalapgr. 5	1
Make into one pill and give for a dose.	

IV.

Oil of	turpentine	.fl.oz. 1
Castor	oil	.fl.oz. 1
Dose:	1/2 fluidounce; repeat	in two c

three hours if it does not operate.

#### V.

German wormseed, powdereddr. 1
Fluid extract of spigeliafl.dr. 3
Fluid extract of sennafl.dr. 1
Fluid extract of valerianfl.dr. 1
Syrup of buckthernfl.oz. 2

Dose 1/2 to one teaspoonful night and morning. Suitable for cats.

#### Flea Powder.

Napthalin	 	 	 	 		.av.oz.	4
Starch		 ι.		 		.av.oz.	12

Reduce to fine powder. A few grains of lampblack added will impart a light gray color—and if desirable a few drops of oil of pennyroyal will disguise the napthalin odor. This is an excellent powder for the removal of fleas from cats or dogs, by rubbing into the skin of the animal and letting the powder remain for a day or two, when the same can be removed by combing or giving a bath to which some infusion of quassia has been added. This treatment is equally efficient for lice and ticks, with which dogs as well as cats are afflicted.

#### SECTION VI-POULTRY MED-ICINES.

#### Poultry Powders.

L

Various mixtures of powdery substances are dispensed under the names "Poultry Powder," "Poultry Food," "Egg Food," and "Egg-Making Food." The latter two names are used because of the alleged property of these mixtures, of increasing the egglaying power of hens.

Ground	bone or slaked lime av. oz. 12	3
Ginger.	av.oz. §	3
Gentian	av.oz. 1	E
Capsicu	m.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1
Sulphur	av.oz. 1	1
Reduce	all to powder and mix well.	
Mix a to	aspoonful with a quart of feed.	

#### II. Oyster shells, coarse powder...av.oz. 24 Calcium carbonate.....av.oz. 4 Calcium phosphate.....av.oz. 4 Black pepper....av.oz. 4 Capsicum....av.oz. 4/2 Venetian red.....av.oz. 3/2 Reduce all to powder and mix well. Use like the preceding.

### THE STANDARD FORMULARY.

III.							
Capsicu	m					av. oz.	2
Allspice						av. oz.	4
Ginger.						av.oz.	6
Reduce	all t	o p	owd	er ar	nd mi	x well.	

One tablespoonful to be mixed with every pound of food and fed two or three times a week. The addition of a little dried ants' eggs, if not too expensive, would prove beneficial.

IV.	
Mustardav.oz.	4
Fenugreekav.oz.	3
Oyster shells, ground	21/2
Bone, groundav.oz.	11/2
Sodium sulphateav.oz.	1
Capsicumav.oz.	2
Black antimonyav.oz.	2
Venetian redav.oz.	2
Corn flourav.oz.	4
Asafetidagr.	90
Reduce all to powder and mix well.	

A tablespoonful is to be mixed with sufficient meal or porridge to feed 20 hens.

Egg shell, or calcium phosphate av.oz. 4
Sulphate of ironav.oz. 4
Capsicumav.oz. 4
Fenugreekav.oz. 2
Black pepperav.oz. 1
Silver sand av.oz. 2
Dog biscuit or lentils, av.oz. 6
Reduce all to powder and mix well.
Use like the preceding.

#### VI.

Calcium phosphate, or ground	
bone	12
Capsicumav.oz.	
Gingerav.oz.	
Cantharidesgr. f	50
Sulphurav.oz.	
Potassium nitrateav.oz.	1
Reduce all to powder and mix well.	

Mix a tablespoonful with a quart of feed, and give two or three times a week.

#### VII.

2

Oyster shell, groundav.oz.	5
Magnesiaav.oz.	1
Calcium carbonateav.oz.	3
Bone, ground av.oz.	11/2
Mustard branav.oz.	11/2
Capsicumav.oz.	1
Saltav.oz.	
Iron sulphate av.oz.	3/2
Sodium carbonate av.oz.	3/2
Sulphur	
Beef, lean, dried and powdered.av.oz.	10
Fine sandav.oz.	10
Corn mealav.oz.	20
Linseed mealav.oz.	20

Reduce all to moderately coarse powder
and mix well.
Use like the preceding."
VIII.
Mustard seedav,oz. 10
Fenugreek
Sodium sulphate av.oz. 2
Capsicumav.oz. 1
Sodium chlorideav.oz. 1
Iron carbonateav.oz. 1
Ginger
Black antimonyav.oz. 1
Bone, groundav.oz. 1
Corn mealav.oz. 10
Reduce all to powder and mix well.
Use like the preceding.
IX.
Sunflower seedav.oz. 8
Mustard seedav.oz. 8
Gingerav.oz. 1
Oilcake mealav.oz. 5
Sulphur
Capsicumav.oz. 32
Saltav.oz. 2½ Venetian redav.oz. 4
Rona masl
Bone meal
Challs
Chalk
Reduce all to powder and mix well.
Use like the preceding.
X
Mustard seed av.oz. 5
Fenugreek av.oz. 8
Oyster shell, groundav.oz. 6
Bone mealav.oz. 4
Sage
Sodium sulphateav.or. 2
Capsicumav.oz. 1
Bayberry barkav.oz. 1
Sodium chlorideav.oz. 1
Gingerav.oz. 1
Black antimonyav.oz. 1
Fine sand av.oz. 4
Asafetidaav oz. 12
Wheat flourav.oz. 5
Corn mealav.oz. 5
Reduce all to powder and mix well.
Use like the preceding.
Chicken Lice from Coops, to Remove.
Carbolic acid, crudefl.oz. 1
Waterfl.oz. 15
Wash the woodwork with this mixture and
sprinkle in nests and on floor.
Chicken Cholers Remedy for
Chicken Cholera, Remedy for.
Sulphuric acid
Woter anough to make
Iron sulphateav.oz. 16 Water, enough to make

Add 1 fluidounce of this mixture to a

Reduce all to moderately coar

pint of water, and supply in place of water, or mix with meal or other food.

II.

Iron sulphate		 			av.oz. 1
Capsicum		 			av.oz. 1
Black pepper	* 1	 		2	av. oz. 2
Calcium phosphate			4.1		av.oz. 8
Fenugreek					av.oz. 4
- Sand		 · •			av.oz. 4

Reduce all to powder and mix well.

An even teaspoonful is to be given with the feed for a dozen fowl.

III.

Give three or four teaspoonfuls of strong alum water once a day. This is recommended by the U. S. Department of Agriculture.

#### Roup Remedy.

Potassium chlorateav.oz. 2
Cubebsav.oz. 2
Anise av oz. 1
Licorice rootav.oz. 3
Reduce all to powder and mix well.

A teaspoonful of this is to be mixed with food for sixty hens.

#### SECTION VII-BIRD MEDICINES.

#### Mixed Bird Seed.

Various	other	mix	tures	are	also use	d a
Maw see	:d				av.oz.	1
Millet se	ed				av. oz.	1
Canary s	seed				av. oz.	4
					av. oz.	

mixed bird seeds; some of these contain rape seed.

#### Canary Bird Food. .....

n . .

Dried york of eggav.oz. 2	5
Poppy heads, coarse powderav.oz. 1	1
Cuttlefish, coarse powder av.oz. 1	L
Sugar, granulated	2
Biscuit from wheat flour, dried	
and powdered av.oz. 8	3

#### German Bird Paste or Canary Food. I.

Corn mealav.oz. 8
Sweet almonds, blanched av.oz. 4
Butter, freshav.oz. 1
Sugar, powderav.oz. 1
Saffrongr. 5
Egg1 or 2

Pass the egg through a fine grater and add to the other ingredients. Beat to a smooth paste with cold water, and granulate the

mass by passing through a coarse grater, then expose the product to the air in a warm place until quite hard and dry. II.

Sweet almonds, blanche	d av.oz. 8
Pea meal	av.oz. 16
Butter or lard, fresh	av.oz. 3
Saffron	
Honey	sufficient

Beat together the ingredients until a smooth paste is formed, then granulate by pressing through a colander and allow to dry. Some prefer to add to the above the yolks of two eggs, or two or three hard-boiled eggs. Instead of the honey, 2 av. ounces of sugar may be used; then cold water must be added to the mixture to form a paste. III.

Pea mealav.oz.	
Sugar, granulated av.oz.	4
Fine-grated stale bread av.oz.	
Butter, freshav.oz.	
Yolks of eggsNo.	1
Poppy seedav.oz.	
Hemp seed, bruised, av.oz.	16

Mix the first five ingredients, brown slightly in a frying pan and add the remaining ingredients.

#### Food for Larks, Nightingales and Other Insectivorous Birds.

Use either of the three formulas just immediately preceding.

#### Mocking Bird Food.

Ι.

Broken crackersav.oz.	8
Corn	9
Rice	2
Hemp seedav.oz.	1
Capsicumgr.	10
Mix and reduce to coarse nowder	

and reduce to coarse powder.

II.	
Hemp seedav.oz.	16
Autor second a statistic station	8
Rice, unshelledav.oz.	2
Corn mealav.oz.	2
Capsicumav.oz.	2
Lard oilfl.oz.	3

Mix all but the oil, grind to coarse powder, and then incorporate the oil.

#### Food for Redbirds.

Sunflower seed av.oz. 8	
Hemp seed	
Canary seedav.oz. 10	
Wheat, cracked av.oz. 8	1
Rice, unshelled av.oz. 6	1
Mix and grind to coarse powder.	

# THE STANDARD FORMULARY.

III. Oxheartav.oz. 2	This is made into a paste, of which a piece the size of a hazelnut is dissolved in a gallon
Wheat bread, toastedav.oz. 4 Maw seedav.oz. 2 Hamma cond	of water and given the birds to drink.
Hemp seedav.oz. 6 Boil the oxheart well in water, cut small,	Ointment, Healing and Soothing. Peru balsamgr. 60
and place it in a pan in an oven where it must	Cold creamav.oz. 1
be allowed to become perfectly dry and crisp. All the ingredients must then be	Tonic Medicine.
mixed and reduced to coarse powder.	I. Tincture of cinchonafl.dr. ½
Asthma in Canaries, Remedy for. Tincture of capsicumfl.dr. 5 Spirit of chloroformm. 90 Iron citrate, solublegr. 45 Fennel waterfl.oz. 3½	Tincture of chloride of irondrops 2 Glycerinfl.dr. 1 Caraway waterenough to make fl.oz. 1 Put a few drops on a lump of sugar in the cage daily.
Mix and dissolve. Give a few drops on a lump of sugar in	II.
the cage once daily. This mixture may be dispensed under the name "Pectoral Tonic."	Iron sulphate
Constipation Remedy for Birds.	the acid.
Fluid extract of sennafl.dr. 2 Syrup of mannafl.oz. 1 Fennel water, enough to makefl.oz. 4	A teaspoonful of this mixture is to be added to each quart of the drinking water of the birds. This is especially recommended
Give a few drops on a lump of sugar in the cage once daily.	for moulting birds.
Diarrhœa Remedy for Birds.	This preparation is known as "Douglass' Mixture."
Tincture of iron chloridefl.dr. 2 Paregoricfl.dr. 2 Caraway waterfl.oz. 3½ Use like the preceding.	III. Compound tincture of cinchonafl.dr. 2 Compound tincture of gentianfl.dr. 2 Syrup of orangefl.oz. 1
Gapes in Pheasants, Remedy for.	Simple elixir
Ferrous sulphate	Put a few drops on a lump of sugar in the cage once daily. These preparations may be dispensed under the names "Bird Tonic," or "Tonic Elixir."
General Directions for Care of Birds. When ailing, the first thing is to keep the bird as quiet as possible; this is best accom- plished by covering the cage closely. Most ailments of birds are due to a cold, the cause of which is generally owing to exposure to a draught of air or keeping the bird in an overheated room.	When nfoulting, special attention should be paid to the birds, as any disease to which they are predisposed will show itself then. Give warming, nourishing food, keep the bird and cage clean, place in the warm sun- light and keep them out of draughts. Should this not be effective to recuperate them, rec- ommend "Tonic Elixir."
To cure a cold, add to the regular food equal parts of a paste consisting of hard- boiled eggs, corn meal and grated apple, the whole well spiced with Cayenne pepper. Sometimes the bird seems hoarse and has apparently lost his voice; this is frequently occasioned by over-singing, and is remedied by dissolving a little pure rock candy in the	The feet are often the seat of disease. To remove accumulations of dirt from the feet, hold them in lukewarm water for three or four minutes each day till the dirt drops off. If the feet are warty and seem to be sore, bathe them as above and grease them with fresh cream, or, still better, with an "Oint- ment of Cold Cream."
drinking water. Birds troubled with diar- rhœa can usually be relieved by placing a rusty nail in their drinking water; if this is not effective, recommend "Diarrhœa Remedy." Should the bird be troubled with costiveness, mix an additional quantity of green fruit to	Pimples, or obstruction of the rump gland, is caused where the bird is not using the gland. Open the gland with a fine needle and apply the "Ointment of Cold Cream." For lice, supply the cage daily with clean,
the regular food; if this does not relieve, rec- ommend "Constipation Remedy."	fresh sand mixed with some "Insect Pow der."

# PART V.

# TOILET PREPARATIONS.

**Collowing sections:** 

SECTION 1. Distinctively Odor Prepa rations.

Skin Preparations. SECTION 2.

Hair Preparations. SECTION 8.

SECTION 4. Mouth (Tooth, Lip, Breath) Preparations.

SECTION 5. Bath Preparations.

#### SECTION I OF PART V.

Preparations used mainly or largely for their odor, including Handkerchief Extracts, Sachet Powders, Solid Perfumes, Pot Pourris, Fumigating Pastilles, Powders, etc.; Cologne Waters, Toilet Waters, Bay Rum, Toilet Vinegars, and Smelling Salts. -

#### Perfumes.

Perfumes, as druggists employ the term. embrace Handkerchief Extracts, Cologne and Toilet Waters, and Sachet Powders.

Fine perfumes can be prepared only by the use of good material; in fact, the best obtainable is none too good for a discriminating taste. In the following paragraphs will be outlined the requisites of the best materials.

One of the first requisites in the manufacture of fine perfumes is a first-class quality alcohol, free from fusel oil or other odorous contamination that would modify or destroy the delicate floral odors which are the main ingredients of fine perfumes. The best kind of alcohol is what is known as "deodorized alcohol." (See process of manufacture in Part I.) Another grade of alcohol which is fairly good is what is sold as "cologne spirit," which is the "middle run" obtained in the manufacture of ordinary alcohol, and is fairly free from fusel oil.

The difference between ordinary alcohol and purified alcohol can be determined very easily by rubbing a few drops between the hands and allowing the alcohol to evaporate

This division naturally subdivides into the entirely; a residuary odor remains in the case of ordinary alcohol, which is quite marked and very pungent and objectionable.

> It is in the case of volatile oils probably that the greatest difficulty is experienced in securing first-class material. These substances should always be of the very best quality and of the best grade, free from adulteration, and should be preserved in small well-stoppered bottles in a cool place. Such oils as those of the citrine variety---orange, lemon, etc.-should be preserved by the addition of some alcohol, this being added as soon as the oils are received.

> Oil of Bitter Almond is now obtainable deprived of hydrocyanic acid, and owing to the excessively poisonous character of the latter, such an oil should be preferred for perfumery purposes. The artificial oil should not be substituted for the natural product.

> Oil of Neroli, or Orange Flowers, is of several varieties. The most highly esteemed and the one which should always be used for fine perfumes is what is known as Oil of Neroli Petale, distilled from the flowers of the sweet orange. The other varieties are Oil of Neroli Bigarade, obtained from the flowers of the bitter orange, and Oil of Petit Grain, which is produced by distilling the leaves and unripe fruit.

> Much confusion exists regarding Oil of Rose Geranium. Only the best French or Spanish oil should be used. In the case of Oil of Cloves, what is known as the Bourbon variety is most highly esteemed. In the case of Oil of Orange, the Oil of Bitter Orange peel is considered the best. Of the oils of Lavender, the English, or so-called "Mitcham," is the best.

> Oil of Orris occurs in two forms, concrete and liquid, but the latter only is to be employed in the formulas given below. Oil of Sandalwood is largely adulterated, and only the best English or East Indian oil should be used.

Volatile oils are frequently employed in the

form of spirits, or dilutions with alcohol, in the manufacture of liquid perfumes.

What is known as "pomades" are also of very great importance in the manufacture of perfumes. These are known by numbers which indicate the number of times purified lard has been impregnated with the flower odors by the method of enfleurage.

These pomades include the following odors: Rose, orange flowers, jasmine, tuberose, jonquil, cassie, reseda or mignonette, violet, lily of the valley, mimosa, and heliotrope. Before these pomades can be used they must be extracted by means of strong alcohol (to be described below); this alcoholic extract is known in this work by the title of "Essence."

Various animal substances are used in the manufacture of perfumes. These include musk, civet, and ambergris. Inasmuch as these are very expensive, they are subjected to the grossest adulterations, and the utmost care must be exercised to obtain the very purest of product.

These animal substances are not altogether used for their own odor but for their peculiar property of "fixing" the fugitive flower odors and making them permanent.

The best musk is the variety known as

Tonquin in "grains." This substance employed usually in the form of a tincture alcoholic extract. The extractive action the alcohol is assisted by a small amount *a* alkaline water and placing the vessel contair ing the mixture in a warm place for at leas 30 days. i

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Ambergris occurs in several varieties, the most esteemed of which is that kind known as the gray variety. Both it and civet are used in the form of alcoholic tinctures. To facilitate extraction, they are first triturated with about an equal amount of finely granulated orris root.

Among various crude vegetables employed in perfumery are orris root, vanilla, tonka, benzoin, tolu, storax, and Peru balsam. The best orris root is the kind known as Florentine; it is generally employed in the form of a concentrated alcoholic tincture. The other substances mentioned occur also in different grades or varieties, but only the very best should be selected for perfumery purposes. Like orris, all are generally employed in the form of alcoholic tinctures.

Among the other substances employed in the manufacture of perfumes are various chemicals such as heliotropin, hyacinthin, terpineol (also known commercially as

The following table is an interesting one as showing the relationship between the different odors:

CLASSES.	TYPES.	ORDERS BELONGING TO THE SAME CLASS.	
Jasmine. Orange flower. Tuberose Violet Balsamic Vanilla Spice Clove Camphor Sandal Citrine Herbaceous. Mint Anise Almond Musk	Jasmine Orange Flower Tuberose Violet Benzoin Vanilla Cinnamon Clove Camphor Sandalwood Lemon Lavender Peppermint Aniseed Bitter almond Musk	Geranium, sweet brier, rosewood. Lily of the valley, white pond lily, ylang ylang. Acacia, syringa, orange leaves. Lily, jonquil, hyacinth. Orrisroot, mignonette. Balsam of Peru, tolu, benzoin, storax. Toaka. Nutmeg, mace, pimento. Carnation, clove pink. Rosemary, patchouly. Vetivert, cedarwood. Bergamot, orange. cedrat, limette Thyme, marjoram, wild thyme. Spearmint, balm, rue, sage. Caraway, dill, coriander, fennel, star anise. Peach kernels, mirbane, cherry-laurel. Civet, musk-seed, sumbul, ambergris. Apple, pineapple, quince.	

#### Classification of Odors.

**Source** of substance derived from the resin), etc.

Another chemical employed in making perfurmes is ionone, which appears in the market in the form of a 10 per cent alcoholic solution; this is used in imitating the odor of violets. In late years these chemicals really play a most important part in perfumery manufacture.

Rose and orange flower waters are employed in some perfumes. In making handkerchief extracts, only the best imported "triple" water should be used.

### Handkerchief Extracts.

Handkerchief extracts, or "extracts," as they are more commonly termed, are produced by incorporating with alcohol one or more essences (see definition of term above), one or more spirits (alcoholic solutions of volatile oil) or possibly the oils themselves, and a tincture of some of the animal or resinous substances mentioned above. Occasionally other ingredients are added, such as one of the chemicals, which really take the place of the volatile oil or spirit. This mixture should be set aside for some time (several weeks at least) to allow it to "ripen" or blend, after which it may be filtered.

If the ingredients of handkerchief extracts be classified according to their function, the classification would be as follows: (1) Odor-Ous agents; (2) fixing agents, and (3) vehicle.

The essential odorous agents are the es-Sences, spirits or oils, and chemical substances. The "fixing" agents consist of the musk, ambergris, civet, resins, orris, etc. The distinction between the first and second classes is not sharply drawn, for the reason that some of the "fixing" agents are used for their odor as well as for their "fixing" properties. The third class practically embraces but one substance, viz., alcohol, although rose and orange flower water are sometimes added after the alcohol, and may therefore also be considered as vehicles.

The office of "fixing" agents is chiefly

to hold the perfume to, or fix, or fasten it upon, the handkerchief or other fabric to which it is applied, it being understood that the odoriferous matters are all very volatile and therefore evanescent when exposed to the atmosphere. The "fixing" agents also serve to hold or secure the delicate flower odors to the vehicle while the moisture is still present in the container as "extract."

The "fixing" agents are of three varieties: (1) Fatty matter derived from pomades during extraction with alcohol; (2) resinous substances, such as Peru balsam, tolu, storax, benzoin, orris, etc., and even myrrh, asafetida, aloes, etc., may be employed; and (3) animal substances, which include musk, ambergris and civet.

The objection to the first class is that they soon decompose and impart to the perfume a rancid odor, and consequently pains must be taken to exclude or remove all fat from the essence.

The objection to the second class is but an æsthetic one and hence is less serious than in The resins impart a high the preceding. color to the perfume and when the latter is dropped on a white handkerchief the fabric at once presents a soiled appearance. This is one reason why benzoin is often replaced by benzoic acid obtained by sublimation of the resin. Orris does not have the objection of imparting a high color, but the amount of resinous matter is so small that a very concentrated alcoholic tincture must be employed. Of course, all resins are objectionable because of their own odor, which may perceptibly modify the other odors, and this is sufficient reason why different resins are selected for different perfumes.

A suggestion may be thrown out here for using resins as "fixing" agents without obtaining any great amount of color, and that is to heat rather strongly a resinous substance, or suitable mixture of resinous substances, in a test tube plugged with a large wad of cotton. The latter becomes impregnated with odorous substances naturally contained in the resins, also some volatile empyreumatic substances formed by the destructive distillation, and will possess a certain amount of color. Upon placing in alcohol, these various principles will be dissolved, and the alcoholic liquid may be used as before for "fixing" purposes.

The third class of "fixing" agents is remarkable in that but trifling amounts will serve the purpose, and hence they are the most largely employed. The one objection to their use is their pronounced and very persistent odor, which is likely to remain after the other odorous substances have dissipated. These substances include, as stated, musk, civet, and ambergris.

In all perfumes, the appearance, next to the odor, plays the most important part. The rule is that they should be either colorless or, at the most, of a very pale tint, pale green, for example, being a popular tint for "extracts." This color should be of such a character as to disappear on drying. Essence of cassie is sometimes added to "extracts" with a view of imparting this green tint. Sometimes a very trifling amount of green aniline is employed for the same purpose; the latter is more objectionable owing to the fact that it is liable to produce stains, and also owing to the presence of a poisonous substance, arsenic, in almost all anilines. An acceptable green coloring agent for white rose extract is a tincture of patchouly made in the proportion of 4 av. ounces of the leaves to 16 fluidounces of alcohol. The resins mentioned as "fixing" agents also impart color, this being brown, but is objectionable, as stated above, owing to its staining properties.

Care should be taken to preserve all perfumes, but particularly the "extracts," with proper care. They should never be exposed to strong light; exposure to air is also prejudicial and so is exposure to heat. Cold may precipitate or separate out some of the substances present in solution in the alcoholic liquid, and hence extracts should be preserved in locations of a moderate temperature, and this temperature should also be tolerably uniform. It may therefore be stated that "extracts" should be preserved in rather small (about 8 ounce) glass-stoppered bottles, out of contact with strong light, and at a uniform, medium temperature.

Some extracts named after flowers are prepared from essences or oils derived from the

flowers, to which are added suitable diluents and fixing agents. A great many flower odors are, however, so weak that they cannot be captured, or, if successfully and economically captured, cannot be properly "fixed"; in such instances it is customary to blend other odors so as to imitate the natural product. Heliotrope is, for example, a mixture of vanilla and rose, slightly modified by means of bitter almond. The odors of lily of the valley and lilac are imitated in a similar manner. Frequently the reputed imitations are but very poor imitations indeed.

Other odors besides flower odors are imitated, such, for example, as that of new mown hay. Then, again, there are other "extracts" which are pleasing mixtures or combinations of odors, which have received arbitrary titles such as "Upper Ten," "Marie Stuart," etc., and frequently also are known as "bouquets."

A convenient and popular, though indefinite, classification of "extracts" is into "delicate odors" and "heavy odors," the former including such as violet, heliotrope, lilac, etc., the latter musk, jockey club, etc.

A few remarks on how to sell perfumes will not be amiss at this juncture. A common practice among pharmacists in showing these goods to prospective customers is to remove the stopper from the stock bottle, and allow the customer to smell directly from the latter. The vehicle alcohol being more volatile than the volatile oils which form the real perfume, obtrudes itself upon the olfactory nerves and crowds away, as it were, the more delicate odors. The proper method of showing the "extracts" and indicating the differences between them is to wet the stopper by inverting the bottle, then to moisten a strip of blotting paper or a piece of rice (cigarette) paper, allowing the latter to become almost dry before handing to the patron. Another good suggestion is to have a small sample rack of perfumes containing a number of glass-stoppered half or one ounce bottles; this will enable the pharmacist to keep the stock bottles in a dark place to be opened only when an "extract" is to be dispensed. The sample rack may also be kept in a dark place when not in use. If the glass stoppers of

the bottles of the rack are of the elongated kind, so as to reach to the bottom of the bottle, the tissue or rice paper may be dispensed with.

In showing "extracts," the order in which they are shown is also a matter of consequence, especially when the prospective customer does not have any preferences. The finest, most delicate odors should always be shown first; if the heavy odors be presented first, the olfactory nerves will have become so impressed with the latter that the delicate odors which are shown subsequently will appear to be decidedly lacking in quality, and thus a sale may be lost.

The sale of "mixed odors," that is, a mixture of two or more "extracts," should be discouraged because each "extract" is a harmonized blending of odors, and mixing "extracts" is liable to destroy this harmony. However, this matter may not be of such great consequence, because those that ask for "mixed odors" do not properly appreciate the value of a well-made "extract."

In preparing the "extracts" which follow, the subjoined essences, spirits and tinctures should be employed

It is quite essential that the amateur manufacturer of "extracts" carefully peruse the preceding pages to inform himself upon the varieties of materials used in perfumes, the method of preservation, etc.

It may be stated that the "extracts" can be cheapened by the use of weaker pomades or inferior oils, or of a tincture of musk of one-half the strength given, by the substitution of civet for the ambergris, except in the Case of ambergris extract, by the addition of larger proportions of alcohol and of some water, etc.

### Essences.

Essences (extracts, extraits and esprits, they are also termed) are prepared, as already stated, by extraction of the odorous substances from pomades by means of alcohol, this process being known generally as "washing." The best method of washing is as follows:

Sixteen av.ounces of the pomade are cut into small pieces and placed in a bottle of sufficient capacity, such as a fruit jar, in

which is put 16 fluidounces of pure alcohol. Place the bottle, suitably stoppered, in a water bath, and apply heat sufficient to barely melt the pomade, shake well together, and repeat the shaking frequently until the fatty matter solidifies. In this way the pomade will be reduced to a finely divided or granular state, permeated thoroughly by the alcohol. Allow this to stand for a week-a month or even longer would be better-giving it an occasional shake, then drain off the liquid into another bottle; if this fall short of 16 fluidounces, repeat the operation with a sufficient quantity of alcohol to make up to this measure.

By subsequent and similar treatment, a second and even a third quantity of essence may be made, which, although much weaker, will be found useful in the preparation of colognes and toilet waters. Some operators use the second essence for washing a new quantity of original pomade, thus making a stronger essence or enabling one to use a weaker pomade. The residual pomade may be utilized for making hair pomades or as a diluent for mercurial or other ointments, or for making fine soaps (by manufacturers).

Essences prepared by the above method contain some fatty matter and will soon become rancid. This retained fatty matter can be separated by the application of cold, and in order that it may all be separated, the following process should be adopted in preference to the preceding one: Into an ice cream freezer of a size commensurate with the quantity of essence to be prepared, pour the requisite quantity of alcohol, then heat the pomade cautiously upon a water bath until melted, pour this into the freezer, put on the cover, set the apparatus in motion and continue the beating for 15 or 20 minutes, by which time probably all the odorous matter will have been extracted. Now surround the can with a freezing mixture, composed of ground rock salt and cracked ice, resume the beating until the liquid is thoroughly chilled and the fat has all adhered to the paddle and the sides of the can. Then open the freezer, pour off the liquid, and pass through a well-covered filter to separate the particles of fat still suspended in the liquid.

### THE STANDARD FORMULARY.

#### Spirit of Almond.

Oil of bit	tter almond	s	 m.	80
Alcohol,	enough to	make	 .fl.oz.	16

#### Spirit of Ambrette.

Oil of ambrette.	fl.d	Ir. 2
Alcohol	fl.c	z. 8

### Spirit of Bergamot.

Oil of bergamot						•	÷		.fl	oz.	1
Alcohol			,	•	•	•	•	•	.fl	, oz.	15

#### Spirit of Cedarwood.

Oil of cedar (Lebanon)fl.dr.	4
Alcoholfl.oz.	

#### Spirit of Cinnamon.

	Make according to formula in Part I, from
1	fluidounce of oil of cinnamon (Ceylon) and
9	fluidounces of alcohol.

#### Spirit of Cloves.

Oil of cloves.	 	fl.dr.	4
Alcohol	 	fl.oz.	151/2

#### Spirit of Hyacinth.

Hyacinthin																	gr.	60	
Alcohol	•	•	•	•	•	•		*	•	•	•	•	•	•	•	fl	. OZ.	16	

### Spirit of Lavender.

Prepare according to the formula in Part I, from 1 fluidounce of oil of lavender flowers and 19 fluidounces of alcohol.

#### Spirit of Lemon.

Prepare according to the formula in Part I, from 1 fluidounce of oil of lemon and 19 fluidounces of alcohol; the lemon peel may be omitted.

#### Spirit of Lemon Grass.

Oil of lemon grassfl.oz. 1 Alcoholfl.oz. 15
Spirit of Lilac.
Terpineol or lilacingr. 120 Alcoholfl.oz. 8
Spirit of Linaloe.
Oil of linaloefl.dr. 114 Alcoholfl.oz. 8
Spirit of Neroli.
Oil of nerolifl.dr. 4 Alcoholfl.oz. 15½

#### Spirit of Nutmeg.

Make according to the formula in Part I, from 1 fluidounce of oil of nutmeg and 19 fluidounces of alcohol.

### Spirit of Orange. Prepare according to the formula in Part I, from 1 fluidounce of oil of orange and 19 fluidounces of alcohol. As stated in the introductory remarks on perfumes, the oil of bitter orange peel is tole preferred. Spirit of Orris. Oil of orris, liquid .....fl.dr. 1 Alcohol..... Spirit of Patchouly. Oil of patchouly ..... fl.dr. 4 Alcohol.....fl.oz. 151/2 Spirit of Pimento. Oil of pimento.....fl.oz. 1 Alcohol.....fl.oz. 15 Spirit of Rose. 4 Oil of rose.....fl.dr. 4 Alcohol ..... fl.oz. 75 Spirit of Rose, Compound. Spirit of rose.....fl.oz 2 Spirit of rose geranium ..... fl.oz. 2 Or mix Oil of rose.....fl.dr. 2 Oil of rose geranium.....fl.dr. Alcohol, enough to make ..... fl.oz. 16 The oil of rose geranium is added to give permanence to the spirit. Spirit of Rose Geranium. Oil of rose geranium.....fl.dr. 4 Alcohol. ..... fl.oz. 151/2 Spirit of Sandal. Oil of sandalwood .....fl.dr. 2 Alcohol, enough to make ..... fl.oz. 16

#### Spirit of Vetivert.

Oil of	vetiv	vert.	 		 	 		A.dr.	1
Alcoho	ol		 	• •	 **	 	.,	fl.oz.	8

#### Spirit of Ylang Ylang.

Oil of	ylang	ylang.		 			fl.dr.	3
Alcoho								

#### Tincture of Ambergris.

Ambergris.				.gr. 120
Orris root,	powder			.gr. 120
Alcohol,	******	*****	· · · · · · · · · · ·	.oz. 16

Rub the ambergris and orris in a mortar until reduced to a fine powder; transfer to a bottle, and add the alcohol. Macerate (or 30 days, agitating occasionally, and filter through paper.

### Tincture of Ambrette.

Musk seed ..... av.oz. 4 

Reduce the drug to fine powder, and extract by slow percolation so as to obtain 16 fluidounces of product.

### Tincture of Benzoin.

Siam benzoin, fine powder....av.oz. 2 Alcohol.....fl.oz. 16

Mix, macerate for 30 days, agitating occasionally, and filter.

### Tincture of Civet.

Civet								
Orris	root,	pow	der.	• •	 		gr.	60
Alcoh	ol				 	1	fl.oz.	16

Proceed as with tincture of ambergris.

#### Tincture of Musk.

Muskgr.	. 120
Lime water, warmfl.oz.	
Alcoholfl.oz	. 12

Rub the musk to a fine paste with the water, macerate in a covered mortar for 2 hours, add the alcohol, and transfer to a tightly corked bottle, macerate for 30 days or longer, preferably in a rather warm place, agitate frequently.

#### Stronger Tincture of Orris.

Orris root, powder ..... av.oz. 8 

Extract the drug by slow percolation so as to obtain 16 fluidounces of product.

#### Weaker Tincture of Orris.

Orris root, powder.....gr. 600 Alcohol, enough to make .... fl.oz. 16

Prepare like the preceding.

#### Tincture of Peru Balsam.

Peru bal	sam.					4			 			av.oz. 1
Alcohol		•	•	•••		•	•	• •		•	•	.fl.oz. 15

Mix, macerate for 14 days, agitating occasionally, and filter.

#### Tincture of Storax.

Storax.....av.oz. 1 Alcohol, enough to make ..... fl.oz. 16

Mix, macerate for 14 days with occasional agitation, and filter.

#### Tincture of Tolu.

Prepare according to formula in Part I, from 1 1/4 av. ounces of tolu and enough alcohol to make 16 fluidounces.

#### Tincture of Tonka.

1	onka									÷		÷	.av.oz.
A	Icohol	1											sufficier

Reduce the bean to moderately fine powder, add 16 fluidounces of alcohol, macerate for 14 days, agitating occasionally; filter, and add enough alcohol through the filter to make 16 fluidounces of product.

### Tincture of Vanilla.

Vanilla......gr. 480 Sugar (granulated or rock candy).gr. 480 Alcohol .....fl.oz. 16

Cut the drug into small pieces, beat with the sugar in a mortar until reduced to coarse powder, macerate with the alcohol for 30 days, and filter.

#### Acacia Extract.

Essence of cassiefl	.oz.	4
Stronger tincture of orrisfl	.oz.	2
Tincture of vanillafl		
Tincture of ambergrisfl	.dr.	4
Alcoholfl		

### Ambergris Extract.

	spirit of rosefl.oz, 3
Tincture of	ambergrisfl.oz. 8
	muskfl.oz. 4
Tincture of	vanillafl.oz. 1

### Clove Pink Extract.

#### I..

Essence of rosefl.oz.	6
Essence of cassiefl.oz.	4
Essence of orange flowersfl.oz.	4
Tincture of vanillafl.oz.	2
Oil of clovesdrops	10

### II.

Essence of rosefl.oz.	9
Essence of orange flowersfl.oz.	416
Tincture of vanillafl.oz.	31%
Oil of clovesm.	100

#### Crab Apple Blossom Extract.

Essence of violetfl.oz.	4
Essence of rosefl.oz.	2
Essence of jasminefl.oz.	1
Essence of cassiefl.oz.	1
Spirit of ylang ylang fl.dr.	634
Spirit of linaloefl.oz.	11%
Spirit of nerolifl.dr.	24
Compound spirit of rosefl.dr.	4
Spirit of hyacinthfl.dr.	2
Tincture of muskfl.dr.	1
Oil of mace, volatiledrops	4
Alcoholfl.oz.	1
Essence of jasmine, second	
washing, enough to make fl.oz.	18

3

nt

### Cosmos Bouquet Extract.

Essence of jasmine	fl.dr.	6
Oil of bergamot		
Oil of lemon		
Oil of lavender	irops	9
Oil of cloves		
Coumarin	.gr.	21/2
Heliotropin	gr.	3/8
Tincture of civet	fl.dr.	11/2
Weaker tincture of orris	fl.oz.	15´¯

Mix and dissolve.

### Elder Flower Extract.

Essence of jasminefl.oz	. 2
Essence of rosefl.oz	. 2
Essence of tuberosefl.oz	. 2
Essence of jonquillefl.oz	
Essence of orange flowersfl.oz	
Spirit of ylang ylangfl.oz	. 53
Tincture of muskfl.dr	
Tincture of ambergrisfl.dr	r. 2
Terpineolgr	
AC: 1 11 1	

Mix and dissolve.

### Egyptian Lotus Extract.

314
34
2
21/2
5
. 7
31/2
. 1´
51
. 6½

### Ess. Bouquet Extract.

Ι. ,	
Compound spirit of rosefl.oz. 8	
Spirit of lemon fl.oz. 2 ½	í
Spirit of bergamotfl.oz, 1	
Spirit of nerolifl.oz. 1	
Tincture of ambergrisfl.oz. 1	
Stronger tincture of orrisfl.oz. 1	
Essence of cassiefl.oz. 1	
Alcoholfl.dr. 4	
II.	
Compound spirit of rosefl.oz. 6	
Spirit of lemonfl.dr. 18	
Spirit of rose geraniumfl.dr. 12	
Stronger tincture of orrisfl.oz. 41	
Tincture of ambergris	
Oil of bergamotfl.dr. 41	
Alcohol	:
III.	
Stronger tincture of orrisfl.dr. 2½	ź
Tincture of muskfl.dr. 1	
Essence of jasminefl.oz. 12	
Oil of rosedrops 16	
Oil of nerolidrops 8	
Alcohol, enough to makefl.oz. 16	

IV.	
Oil of bergamotfl.oz.	r
Oil of lemonfl.dr.	-
Oil of nerolifl.dr.	
Essence of resedafl.oz.	1 11
Tinoture of ambergrisfl.dr.	
Alcoholfl.dr.	4
V.	
Essence of rosefl.oz.	8
Tincture of orrisfl.oz.	4
Tincture of muskfl.oz.	1
Oil of rosem.	= 15
Oil of nerolim.	
Oil of bergamotfl.dr.	4
Oil of lemon fl.dr.	2
Rose watersufficie	-
As much of the latter may be added :	aaas is

possible without causing precipitation.

### 4 Esterhazy Bouquet Extract.

Essence of orange flowersfl.dr.	214
Spirit of vetivertfl.oz.	2
Spirit of rosefl.dr.	1
Spirit of rose geraniumfl.dr.	3
Spirit of nerolifl.dr.	3
Spirit of sandalfl.dr.	4
Spirit of clovesfl.dr.	2
Tincture of tonkafl.oz.	35
Tincture of vanillafl.oz.	3
Stronger tincture of orrisfl.oz.	1
Tincture of ambergrisfl.dr.	2
Alcoholfl.oz.	5
Evening Primrose Extract	

### Evening Primrose Extract.

Essence of orange flowersfl.oz.	8
Essence of rosefl.oz.	2
Essence of jasminefl.oz.	3
Compound spirit of rosefl.oz.	5
Spirit of rose geraniumfl.dr.	10
Spirit of ambrettefl.dr.	4
Spirit of patchoulyfl.dr.	14
Tincture of benzoinfl.dr.	4
Tincture of muskfl.dr.	1
Alcoholfl.dr.	12

#### Fashion Bouquet Extract.

Oil of rosem.	-45
Oil ot nerolim.	30
Spirit of bergamotfl.oz.	1
Tincture of muskfl.oz.	6
Stronger tincture of orrisfl.oz.	1
Essence of jasminefl.oz.	8
Benzoic acidgr.	30
Alconol, enough to makefl.oz.	16

### Frangipanni Extract.

Essence of orange flowers	fl.oz. 2
Spirit of sandal.	
Spirit of neroli	
Spirit of rose	fl.oz. 1
Tincture of musk	. fi.dr. a
Tincture of tonka	fl.dr. 11
Alcohol	flor !!

### PERFUMES.

#### 11.

	Tincture of muskfl.o	z. 5
	Tincture of civetfl.d	r. 4
	Stronger tincture of orrisfl.o	
	Essence of orange flowers fl.o.	z. 3
	Essence of tuberosefl.o.	
	Spirit of vetivertfl.o	z. 1
	Oil of rosefl.d	r. 2
	Oil of rose geraniumfl.d.	r. 1
	Oil of sandalfl.d	r. 1
	Oil of nerolifl.d	r. 1
ri,	IL	
и		
1		4
14	Essence of orange flowersfl.oz.	
1	Essence of orange flowersfl.oz. Essence of cassiefl.oz.	2
4	Essence of orange flowersfl.oz. Essence of cassiefl.oz. Spirit of orrisfl.oz.	23
4	Essence of orange flowersfl.oz. Essence of cassiefl.oz.	2 3 17
4	Essence of orange flowersfl.oz. Essence of cassiefl.oz. Spirit of orrisfl.oz. Spirit of sandalfl.dr. Compound spirit of rosefl.dr. Spirit of vetivertfl.dr.	2 3 17 22 12
4	Essence of orange flowersfl.oz. Essence of cassiefl.oz. Spirit of orris fl.oz. Spirit of sandal fl.dr. Compound spirit of rosefl.dr. Spirit of vetivert fl.dr. Spirit of rose geranium fl.dr.	2 3 17 22 12 5 4
2	Essence of orange flowersfl.oz. Essence of cassiefl.oz. Spirit of orrisfl.oz. Spirit of sandalfl.dr. Compound spirit of rosefl.dr. Spirit of vetivertfl.dr.	2 3 17 22 12 5 4
2	Essence of orange flowersfl.oz. Essence of cassiefl.oz. Spirit of orris fl.oz. Spirit of sandal fl.dr. Compound spirit of rosefl.dr. Spirit of vetivert fl.dr. Spirit of rose geranium fl.dr.	2 3 17 22 12 5 4 1 5 4
	Essence of orange flowersfl.oz. Essence of cassiefl.oz. Spirit of orris fl.oz. Spirit of sandal fl.oz. Spirit of sandal fl.oz. Compound spirit of rose fl.dr. Spirit of vetivert fl.dr. Spirit of rose geranium fl.dr. Tincture of musk fl.dr.	2 3 17 22 12 5 23 12 5 23 12 5 23 12 5 23 12 5 23 12 5 23 12 5 23 12 5 23 12 5 23 12 5 24 12 5 25 12 5 25 12 5 25 12 5 12

### Frangipanni (Roman) Extract.

Musk	12
Ambergrisgr.	3
Vanilla, cut fine and trituratedgr.	60
Tonka, bruisedgr.	120
Essence of cassie fl.dr.	2
Essence of rosefl.dr.	2
Essence of orange flowers, fl.dr.	2
Essence of tuberosefl.dr.	2
Stronger tincture of orrisfl.oz.	24
Oil of rose drops	22
Oil of cedar, Lebanon drops	22
Oil of rose geraniumdrops	10
Oil of neroli petaledrops	12
Oil of orange (from bitter	
orange) drops	3
Alcoholfl.oz.	

Mix and macerate for several months, agitating occasionally.

### Flowers of Ireland Extract.

White rose	extract.	 				4	.fl.oz.	15
Tincture o	f vanilla.	 	i.		,		.fl.dr.	12

# Heliotrope Extract.

Tincture of vanilla	.fl.oz. 8
Tincture of ambergris	.fl.oz. 1
Tincture of civet	
Compound spirit of rose	.fl.oz. 3
Oil of bitter almond	drops 5
Essence of rose	
II.	
Essence of jasmine	.fl.oz. 1
Tincture of vanilla	
Tincture of musk	
Tincture of storax	
Spirit of neroli	
Spirit of almond	
Spirit of rose	
Alcohol	

111.	
Essence of jasminefl.oz.	934
Oil of rosedrops	6
Oil of bitter almondsdrops	3
Tincture of muskdrops	6
Ess. bouquet extractfl.oz.	41/2
Heliotropingr.	22
Mix and dissolve.	

## IV.

Spirit of bergamot fl.oz.	6
Tincture of benzoinfl.dr.	1/2
Tincture of benzoinfl.dr. Vanillingr.	2
Heliotropingr.	10
Alcoholfl.oz.	9
Mix and dissolve.	

### Heliotrope (White) Extract.

Essence of jasminefl.oz, 4
Essence of rosefl.oz. 2
Essence of tuberosefl.oz. 2
Spirit of ylang ylang fl.dr. 61
Tincture of civetfl.dr. 6
Tincture of muskfl.dr. 1
Heliotropingr. 50
Coumarin
Alcohol, enough to makefl.oz. 16
Mix and dissolve.

## Hesperis Extract.

Essence of cassie fl.oz.	3
Essence of orange flowersfl.oz.	
Tincture of muskfl.dr.	4
Tincture of tonkafl.dr.	51/2
Oil of bergamotfl.dr.	2
Oil of clovesfl.dr.	1
Spirit of lavenderfl.oz.	21/2
Spirit of rosefl.dr.	4
Rose waterfl.dr.	4
Alcohol, enough to make fl.oz.	16

### Honeysuckle Extract.

Essence of rose	fl.oz. 4
Essence of violet	fl.oz. 4
Essence of tuberose	
Tincture of vanilla	
Tincture of tolu	
Tincture of musk	
Spirit of bitter almond	
Spirit of neroli	
Alcohol	fl.dr. 4

### Hyacinth Extract.

Hyacinthingr.	90
Oil of neroli bigarade drops	30
Tincture of muskfl.dr.	21/2
Tincture of benzoinfl.dr.	5
Essence of jasminefl.oz.	3
Alcoholfl.oz.	12
Orange flower water, triple fl.oz.	1%

## THE STANDARD FORMULARY.

### Jockey Club Extract.

I.		
	Compound spirit of rosefl.oz.	4
	Essence of rosefl.oz.	1
	Essence of tuberosefl.oz.	4
	Essence of cassiefl.oz.	2
	Essence of jasminefl.oz. Essence of orange flowersfl.oz.	1
	Essence of orange flowersfl.oz.	1
	Tincture of civetfl.oz.	2
	Tincture of muskfl.oz.	1
11		
		***
	Essence of tuberosefl.oz.	5%
	Essence of cassie fl.oz.	2%
	Essence of cassiefl.oz. Essence of jasminefl.oz. Compound spirit of rosefl.oz.	1%
	Compound spirit of rosefl.oz.	31/2
	Spirit of ambrettefl.oz.	1
	Spirit of nerolifl.dr.	24
	Tincture of civetfl.dr.	4
	Alcohol, enough to make fl.oz. 1	16
11	П.	
	Essence of orange flowersfl.oz.	4
	Essence of cassiefl.oz. Essence of jasminefl.oz.	2
	Essence of jasminefl.oz.	2
	Compound spirit of rosefl.oz.	4
	Spirit of rose geraniumfl.dr.	
	Spirit of ambrettefl.dr.	4
	Spirit of bergamotfl.dr.	1%
	Spirit of clovesfl.dr.	1
	Tincture of muskfl.dr.	1
	Alcohol, enough to make fl.oz.	16
11	J	
*		
	Essence of jasmine fl.oz.	1
	Essence of orange flowersfl.dr.	2
	Stronger tincture of orrisfl.oz.	6
	Tincture of civetfl.dr	41/2
	Tincture of vanillafl.dr.	334
	Spirit of sandalfl.oz.	3
	Spirit of bergamotfl.oz.	234
	Spirit of rosefl.dr.	6
	Benzoic acidgr.	30
V.		
	Essence of jasminefl.dr.	10
	Essence of violet,fl.dr.	4
	Tincture of muskfl.dr.	9
	Tincture of vanillafl.dr.	ã1
	Spirit of rose fldr	872 B
	Spirit of rosefl.dr. Spirit of sandalfl.oz.	8
	Spirit of nerolifl.dr.	5%
	Bananic acid	20 22
	Benzoic acidgr. Alcoholfl.oz.	14
	AICOHOI	14
	Mix and dissolve.	
V		
	Oil of rosefl.dr.	1/2
	Oil of cedar, Lebanonm.	15
		2
	Essence of violetfl.oz.	12
	Essence of jasminefl.oz.	2
	Essence of rosefl.oz.	4
	Tincture of civetfl.oz.	2

### Kiss-Me-Quick Extract.

Essence of cassie       fl.oz. 23         Essence of jasmine       fl.dr. 10         Essence of tuberose       fl.dr. 10         Tincture of vanilla       fl.dr. 23         Tincture of vanilla       fl.dr. 10         Tincture of vanilla       fl.dr. 10         Tincture of vanilla       fl.dr. 10         Tincture of vanilla       fl.dr. 14         Stronger tincture of orris       fl.dr. 14         Tincture of musk       m. 50         Spirit of bergamot       fl.dr. 7         Spirit of neroli       fl.dr. 53         Alcohol       fl.dz. 54	
Lilac Extract.	
I.	
Essence of tuberosefl.oz. 12 Essence of orange flowersfl.oz. 3 Tincture of civetfl.dr. 4 Spirit of ylang ylangfl.dr. 4 Oil of bitter almondsdrops 3	
II.	
Essence of jasmine       fl.oz.       3         Essence of tuberose       fl.oz.       2         Essence of rose       fl.oz.       4         Spirit of lilac       fl.oz.       4         Spirit of hyacinth       fl.dr.       fl.dr.         Spirit of ylang ylang       fl.dr.       6½         Tincture of civet       fl.dr.       6         Tincture of musk       fl.dr.       1         Heliotropin       gr. 20       Alcohol, enough to make       fl.az.	
III.	
Essence of tuberose	
IV.	
Essence of tuberosefl.oz. 4 Essence of orange flowersfl.oz. 1 Tincture of civetfl.dr. 115 Spirit of almondsfl.dr. 215 Alcoholfl.oz. 1035 These lilac extracts are usually known by	
such titles as "White Lilac," "Lilac Blos-	
som," etc.	
Lily of the Valley Extract. (White Pond Lily Extract.) I.	

Essence of tuberosefl.oz. 8
Essence of jasminefl.oz. 1
Essence of orange flowers fl.oz. 1
Essence of cassie fl.oz. 2
Essence of rose fl.oz. #
Compound spirit of rose
Oil of bitter almonds drops 2
Tincture of vanillafl.oz. 1

### PERFUMES.

II.	Locust Blossom Extract.
Essence of rosefl.oz. 4 Essence of violet	Essence of jasminafl.oz. 8
Essence of violetfl.oz. 2 Essence of jasminefl.oz. 1	Essence of cassiefl.oz. 11/2
Essence of cassiefl.oz. 1	Tincture of vanillafl.oz. 1½ Tincture of civetfl.oz. 1½
Spirit of linaloefl.oz. 11/2	Alcoholfl.oz. 8½
Spirit of ylang ylangfl.dr. 61/2 Compound spirit of rosefl.dr. 4	
Compound spirit of rosefl.dr. 4 Spirit of nerolifl.dr. 2¼	May Bells Extract. (Mabel Bouquet
Tincture of muskfl.dr. 1	Extract.)
Oil of mace, volatiledrops 6	L
Alcohol	Essence of jasminefl.oz. 314
Essence of rose, second wash- ing, enough to makefl.oz. 16	Vlang ylang extract No. 1fl.oz. 3½ Stronger tincture of orrisfl.oz. 2¾
	Fluid extract of cardamomm. 30
III. Essence of tuberosefl.dr. 21	Alcohol fl.oz. 61/2
Essence of cassie	The fluid extract may be replaced by 3
Essence of jasminefl.dr. 21/2	drops of oil of cardamom.
Essence of orange flowersfl.dr. 51/2	II.
Spirit of rose geraniumfl.dr. 5½ Spirit of rose geraniumfl.dr. 11	Essence of jasminefl.oz. 12
Spirit of almondfl.dr. 2	Vlang ylang extractfl.oz. 4
Alcoholfl.oz. 9	Orris root, granulatedav.oz. 2
IV.	Cardamom seed, powdergr. 60
Essence of jasminefl.oz. 6	Mix, let stand 7 days, agitating occasion.
Cardamon, powdered without	ally, and filter.
membranes	Marie Stuart Extract.
Alcoholfl.oz. 71/2	I.
Mix, macerate for several weeks or a month,	Essence of cassiefl.oz. 2
agitating frequently, and filter.	Essence of orange flowersfl.oz. 2
	Essence of rosefl.oz. 2 Compound spirit of rosefl.oz. 4
V. Essence of jasminefl.oz. 20	Spirit of bergamotfl.dr. 12
Cardamom, powdered without	Spirit of rose geraniumfl.dr. 10
membranes	Spirit of patchoulyfl.dr. 24 Tincture of musk fl.dr. 2
Oil of ylang ylangfl.dr. 1 Weaker tincture of orrisfl.oz. 4	Tincture of muskfl.dr. 2 Tincture of tonkafl.dr 51/2
	Tincture of tolufl.dr. 5
Prepare like the preceding.	Tincture of benzoinfl.dr. 4
Lavender Extract.	Coumarin
Essence of rosefl.oz. 2	Alcoholfl.oz. 1
Spirit of lavenderfl.oz. 10	Mix and dissolve.
Alcoholfl.oz. 4	II.
Lily (White) Extract.	Essence of rosefl.dr. 9
Essence of rosefl.dr. 19	Essence of jasminefl.dr. 81/2
Essence of orange flowers fl.dr. 91/2	Spirit of bergamot,fl.dr. 14
Essence of cassiefl.dr. 9½ Tincture of vanillafl.dr. 14	Tincture of muskfl.dr. 3½ Tincture of ambergrisfl.dr. 7
Spirit of clovesfl.dr. 41/2	Tincture of vanillafl.dr. 7
Alcoholfl.oz. 9	Stronger tincture of orris,fl.dr. 7
Liriodendron Extract.	Alcohol, enough to makefl.oz. 16
Essence of cassiefl.dr. 51/2	Mousseline Extract.
Essence of tuberosefl.dr. 51/2	Esterhazy bouquet extract fl.oz. 5
Essence of orange flowersfl.dr. 51/2	Essence of cassiefl.dr. 7
Tincture of benzoinfl.oz. 1 Tincture of civetfl.oz. 4	Essence of jasminefl.dr. 7 Essence of tuberosefl.dr. 7
Tincture of orrisfl.oz. 4	Spirit of sandal
Spirit of bergamotfl.oz. 2	Compound spirit of rosefl.dr. 18
Spirit of rosefl.dr. 5	Spirit of rose geraniumfl.dr. 31/2
Alcoholfl.oz. 1	Alcoholfl.oz. 2

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#### Millefieurs Extract.

Compound spirit of rose	fl.oz.	3
Essence of rose	fl.oz.	1
Essence of jasmine	fl.oz.	4
Essence of orange flowers	fl.oz.	2
Essence of cassie	fl.oz.	2
Stronger tincture of orris	.fl.oz.	2
Tincture of tonka	. fl. oz.	1
Tincture of ambergris	.fl.dr.	4
Tincture of musk	.fl.dr.	4
Oil of bergamot	.fl.dr.	2
Oil of bitter almond	drops	3
Oil of neroli	drops	3
Oil of cloves	drops	3

#### Musk Extract.

Tincture of musk	fl.oz. 11
Tincture of civet	
Compound spirit of rose	fl.oz. 4

This is a rather high-priced article, but the tincture of musk may be reduced one-half with alcohol and still yield a satisfactory product.

#### II.

I.

Essence of orange flowersfl.oz. 2	
Essence of cassiefl.oz. 2	
Spirit of rosefl.oz. 1	
Tincture of muskfl.oz. 1	1/2
Tincture of civetfl.oz. 1	1/2
Tincture of vanillafl.dr. 4	
Tincture of tonkafl.dr. 6	
Tincture of tolufl.dr. 5	
Tincture of benzoinfl.dr. 4	
Alcoholfl.oz. 5	
III.	
Muskgr. 288	
Civet	
Ambergris	
Musk seedav.oz. 6	
Alcohol	

Triturate the musk seed to powder, add the alcohol, macerate in a warm place for 2 or 3 weeks, agitating frequently; place into a percolator, and percolate until 15 fluidounces of liquid have been obtained. To this liquid, add the musk, civet and ambergris, making an intimate mixture; place the whole away in a well-stoppered bottle in a warm place for 2 months, agitating frequently, and filter.

This is reputed to produce a very fine musk extract.

### New Mown Hay Extract.

1.	
Coumaringr.	8
Vanillingr.	4
Weaker tincture of orrisfl.oz. 1	6

· · · · · · · · · · · · · · · · · · ·	
11.	
Tincture of tonkafl.oz.	12
Essence of rosefl.oz.	2
Essence of jasminefl.oz.	2
Oil of rose geraniumfl.dr.	1
Oil of rosedrops	15
Oil of nerolidrops	10
III.	
Essence of orange flowers fl.oz.	3
Essence of tuberosefl.oz.	2
Essence of jasminefl.oz.	2
Compound spirit of rosefl.oz.	3
Spirit of ambrettefl.oz.	2
Spirit of lavenderfl.dr.	10
Tincture of vanillafl.oz.	2
Tincture of tonkafl.dr.	54
Tincture of civetfl.dr.	- 4
Tincture of benzoinfl.dr.	15
Oil of limettedrops	<b>30</b>
-	
IV. Essence of orange flowers flow	35
Essence of orange flowersfl.oz_ Essence of tuberosefl.dr_	7
	5
Spirit of rosefl.dr.	5
Spirit of nerolifl.dr.	7
Tincture of tonkafl.dr. Alcoholfl.oz.	95
Alconol	•/1
Night-Blooming Cereus Extract.	
	4
Essence of jasminefl.oz.	4
Tincture of tonkafl.oz.	3
Tincture of civet	4
Tincture of benzoinfl.oz.	i
Spirit of rosefl.oz.	i
Spirit of rose geraniumfl.oz.	-
Ocean Spray Extract. ("Sea Bree	ze "
Extract.)	
Essence of orange flowersfl.oz.	6
Essence of jasminefl.oz.	3
Compound spirit of rosefl.oz.	5
Spirit of ambrettefl.dr.	4
Spirit of clovesfl.dr.	41
Tincture of muskfl.dr.	1%
Tincture of vanillafl.dr.	6
Orange Flower Extract.	
I.	
Essence of orange flowersfl.oz.	12
Essence of cassiefl.oz.	2
Tincture of muskfl.oz.	2
**	
11.	41
Essence of orange flowersfl.oz.	44
Essence of orange flowersfl.oz. Stronger tincture of orrisfl.dr.	44
Essence of orange flowersfl.oz. Stronger tincture of orrisfl.dr. ■ Tincture of muskfl.dr.	4
Essence of orange flowersfl.oz. Stronger tincture of orrisfl.dr. ■ Tincture of muskfl.dr. Spirit of nerolifl.dr.	1
Essence of orange flowersfl.oz. Stronger tincture of orrisfl.dr. ■ Tincture of muskfl.dr.	
Essence of orange flowersfl.oz. Stronger tincture of orrisfl.dr. Tincture of muskfl.dr. Spirit of nerolifl.dr. Alcohol, enough to makefl.oz.	1
Essence of orange flowersfl.oz. Stronger tincture of orrisfl.dr. Tincture of muskfl.dr. Spirit of nerolifl.dr. Alcohol, enough to makefl.oz.	1
Essence of orange flowersfl.oz. Stronger tincture of orrisfl.dr. Tincture of muskfl.dr. Spirit of nerolifl.dr. Alcohol, enough to makefl.oz.	1
Essence of orange flowersfl.oz. Stronger tincture of orrisfl.dr. Tincture of muskfl.dr. Spirit of nerolifl.dr. Alcohol, enough to makefl.oz. Patchouly Extract. I. Spirit of patchoulyfl.oz.	1
Essence of orange flowersfl.oz. Stronger tincture of orrisfl.dr. Tincture of muskfl.dr. Spirit of nerolifl.dr. Alcohol, enough to makefl.oz. Patchouly Extract. I. Spirit of patchoulyfl.oz. Spirit of rosefl.dr.	1
Essence of orange flowersfl.oz. Stronger tincture of orrisfl.dr. Tincture of muskfl.dr. Spirit of nerolifl.dr. Alcohol, enough to makefl.oz.	1

PERFUMES.

#### II.

Spirit of patchouly	.fl.dr.	814
Spirit of bergamot		2
Essence of jasmine	.fl.oz.	4
Essence of rose	.fl.oz.	2
Tincture of benzoin		2
Alcohol, enough to make		16
III.		
Patchouly leaves, cut	av.oz.	5
Alcohol		
Water		
Salt		4
Oil of lavender		25
Tincture of musk	m.	30

Mix the patchouly with the alcohol, macerate for 7 days, add the water, salt and oil, agitate well together, distill rapidly until 16 fluidounces of distillate are obtained, and to this add the tincture.

### Peach Blossom Extract.

Essence of orange flowers	1.0Z.	31/2
Essence of tuberose	d.dr.	7
Spirit of lemon	d.dr.	13
Spirit of almond		
Tincture of Peru balsam	a.dr.	51/2
Alcohol	A.oz.	6

### Rondeletia Extract.

.

A-
Tincture of muskfl.dr. 4
Tincture of ambergris,fl.dr. 4
Tincture of vanillafl.dr. 4
Spirit of lavenderfl.oz. 5
Spirit of clovesfl.oz. 4
Spirit of bergamotfl.oz. 2
Spirit of rosefl.oz. 1
Alcoholfl.oz. 2
IL
Spirit of lavenderfl.oz. 3
Spirit of cloves,fl.oz. 3
Spirit of bergamotfl.oz. 11/2
Compound spirit of rosefl.dr. 10
Spirit of rose geraniumfl.dr. 5
Tincture of muskfl.dr. 6
Tincture of ambergrisfl.dr. 11/2
Tincture of vanillafl.dr. 214
Alcohol, enough to makefl.oz. 15
III.
Spirit of bergamotfl.oz. 2
Spirit of lemon fl.oz. 21/2
Spirit of clovesfl.oz. 4
Spirit of lavenderfl.oz. 21/2
Spirit of nerolifl.oz. 1
Spirit of rosefl.dr. 21/2
Alcoholfl.oz. 4
Rose (Moss) Extract.
Compound spirit of rosefl.oz. 9
Essence of orange flowersfl.oz. 3
Essence of rosefl.oz. 2
Tincture of civetfl.oz. 1
Tincture of muskfl.oz. 1
and the second

R	ose (Mus	k) Extract.	
	Essence of	rosefl.dr.	91/2
	Essence of	tuberosefl.dr.	41/2
	Essence of	jasminefl.dr.	41/2

Stronger tincture of orrisfl.dr.	14
Tincture of muskfl.dr.	7
Spirit of orangefl.dr.	14
Spirit of rosefl.dr.	1%
Alcohol, enough to makefl.oz.	

### Rose (Tea) Extract.

I	Essence of rosefl.oz.	4
ł	Essence of orange flowersfl.oz.	1
0	Compound spirit of rosefl.oz.	8
5	Spirit of sandalfl.oz.	2
5	Stronger tincture of orris fl.oz.	1
0	Dil of rose geraniumdrops	20
I.		
1		103
(	Compound spirit of rosefl.dr.*	22
5	Spirit of rose geraniumfl.dr.	22
6	Spirit of candal A dr	101

Spirit of sandalfl.dr.	10%
Spirit of nerolim.	160
Stronger tincture of orris fl.oz.	
Alcohol, enough to make, fl.oz.	16

### Rose (White) Extract.

T.

** .	
Compound spirit of rosefl.oz.	8
Essence of rosefl.oz.	3
Essence of jasminefl.oz.	4
Patchouly extract, No. 1 fl.oz.	1
II.	
Oil of rosefl.dr.	11/
Spirit of rose geraniumfl.oz.	12
Essence of rosefl.oz.	372
Essence of jasminefl.oz.	112
Tincture of muskfl.dr.	6/2
Tincture of ambergrisfl.dr.	
Alcoholfl.oz.	
	72
III.	
Essence of rosefl.oz.	4 2
Essence of jasminefl.oz.	2
Essence of violetfl.oz.	8
Compound spirit of rosefl.oz.	
Spirit of patchoulym.	10
Tincture of ambergrisfl.dr.	2 5
Alcoholfl.dr.	9
IV.	
Essence of violetfl.oz.	
Essence of jasminefl.oz.	
Compound spirit of rosefl.oz	. 8
Spirit of patchoulyfl.dr	21/2
Tincture of ambergrisfl.oz.	
Alcoholfl.oz	. 1
V.	
Essence of rosefl.dr.	17
Essence of violetfl.dr.	1314
Essence of jasminefl.oz.	1
Spirit of rose,fl.dr.	514
Spirit of patchouly,m.	80
Alcohol	84
A A A A A A A A A A A A A A A A A A A	-

### THE STANDARD FORMULARY.

VI.	
Spirit of rosefl.oz.	1
Spirit of cedarfl.dr. Spirit of patchouly fl.dr.	4 1/2
Spirit of patchoulyfl.dr. Spirit of orangefl.dr.	21/2
Essence of tuberosefl.dr.	4
Essence of violetfl.dr.	4
Essence of jasminefl.dr. Tincture of muskfl.dr.	4 4
Benzoic acidgr.	15
Alcoholfl.oz.	1414
VII.	
Spirit of rosefl.oz.	2
Spirit of bergamotfl.oz.	1
Spirit of patchoulyfl.dr. Spirit of pimentofl.dr.	4
Essence of jasminefl.oz.	22
Alcohol	õ
Rose water, triplefl.dr.	10
Sweet Brier Extract.	
R.	6
Oil of bergamotfl.dr. Oil of lemonfl.dr.	6
Oil of lavenderfl.dr.	4
Oil of verbenadrops	8
Spirit of rosefl.oz.	2
Spirit of almondfl.dr. Tincture of muskfl.oz.	12%
Alcoholfl.oz.	
Rose (Yellow) Extract.	
Essence of rosefl.oz.	
Farance of tubarana day	2
Essence of tuberosefl.oz.	2
Essence of tuberosefl.oz. Tincture of tonkafl.dr.	2 10
Essence of tuberosefl.oz.	2 10 2¼
Essence of tuberosefl.oz. Tincture of tonkafl.dr. Verbena extractfl.dr.	2 10 2¼
Essence of tuberosefl.oz. Tincture of tonkafl.dr. Verbena extractfl.dr. Alcohol fl.oz. Rose Geranium Extract.	2 10 2¼ 10½
Essence of tuberosefl.oz. Tincture of tonkafl.dr. Verbena extractfl.dr. Alcohol fl.oz. Rose Geranium Extract. Oil of rose geranium fl.oz.	2 10 2¼ 10½
Essence of tuberosefl.oz. Tincture of tonkafl.dr. Verbena extract. Alcohol fl.oz. Rose Geranium Extract. Oil of rose geranium fl.oz. Alcohol fl.oz.	2 10 2¼ 10½
Essence of tuberosefl.oz. Tincture of tonkafl.dr. Verbena extractfl.dr. Alcohol fl.oz. Rose Geranium Extract. Oil of rose geranium fl.oz. Alcohol fl.oz. Spring Flowers Extract.	2 10 2¼ 10½ 10½
Essence of tuberosefl.oz. Tincture of tonkafl.dr. Verbena extract. fl.dr. Alcohol fl.oz. <b>Rose Geranium Extract.</b> Oil of rose geranium fl.oz. Alcohol fl.oz. Spring Flowers Extract. Essence of rose fl.oz.	2 10 2¼ 10½ 1 15
Essence of tuberosefl.oz. Tincture of tonkafl.dr. Verbena extractfl.dr. Alcohol fl.oz. <b>Rose Geranium Extract.</b> Oil of rose geranium fl.oz. Alcohol fl.oz. Spring Flowers Extract. Essence of rosefl.oz Essence of rosefl.oz	2 10 2¼ 10½ 1 15 7 6 1
Essence of tuberosefl.oz. Tincture of tonkafl.dr. Verbena extractfl.dr. Alcohol fl.oz. <b>Rose Geranium Extract.</b> Oil of rose geranium fl.oz. Alcohol fl.oz. <b>Spring Flowers Extract.</b> Essence of rosefl.oz Essence of violet fl.oz Essence of cassiefl.oz Compound spirit of rosefl.oz	2 10 2¼ 10½ 1 15 
Essence of tuberosefl.oz. Tincture of tonkafl.dr. Verbena extractfl.dr. Alcohol fl.oz. <b>Rose Geranium Extract.</b> Oil of rose geranium fl.oz. Alcohol fl.oz. <b>Spring Flowers Extract.</b> Essence of rosefl.oz Essence of violet fl.oz Essence of cassiefl.oz Compound spirit of rosefl.oz Tincture of ambergrisfl.oz	2 10 2¼ 10½ 1 15 
Essence of tuberosefl.oz. Tincture of tonkafl.dr. Verbena extractfl.dr. Alcohol fl.oz. <b>Rose Geranium Extract.</b> Oil of rose geranium fl.oz. Alcohol fl.oz. <b>Spring Flowers Extract.</b> Essence of rosefl.oz Essence of rosefl.oz Compound spirit of rosefl.oz Tincture of ambergrisfl.oz Oil of bergamotfl.oz	2 10 2¼ 10½ 1 15 
Essence of tuberosefl.oz. Tincture of tonkafl.dr. Verbena extractfl.dr. Alcohol fl.oz. <b>Rose Geranium Extract.</b> Oil of rose geranium fl.oz. Alcohol fl.oz. <b>Spring Flowers Extract.</b> Essence of rosefl.oz Essence of rosefl.oz Essence of cassiefl.oz Compound spirit of rosefl.oz Tincture of ambergrisfl.oz Oil of bergamotfl.dr <b>Stephanotis Extract.</b>	2 10 2¼ 10½ 1 15 7 6 1 1 1
Essence of tuberosefl.oz. Tincture of tonkafl.dr. Verbena extractfl.dr. Alcohol fl.oz. <b>Rose Geranium Extract.</b> Oil of rose geranium fl.oz. <b>Spring Flowers Extract.</b> Essence of rosefl.oz Essence of rosefl.oz Essence of cassiefl.oz Compound spirit of rosefl.oz Tincture of ambergrisfl.oz Oil of bergamotfl.dr.	2 10 2¼ 10½ 10½ 15 
Essence of tuberosefl.oz. Tincture of tonkafl.dr. Verbena extractfl.dr. Alcohol fl.oz. <b>Rose Geranium Extract.</b> Oil of rose geranium fl.oz. Alcohol fl.oz. <b>Spring Flowers Extract.</b> Essence of rosefl.oz Essence of cassiefl.oz Compound spirit of rosefl.oz Tincture of ambergrisfl.oz Oil of bergamotfl.oz Gil of bergamotfl.oz Essence of cassiefl.oz Compound spirit of rosefl.oz Compound spirit of rosefl.oz H.oz Compound spirit of rosefl.oz Oil of bergamotfl.dz	2 10 24 10½ 10½ 15 15 54 54
Essence of tuberosefl.oz. Tincture of tonkafl.dr. Verbena extractfl.dr. Alcoholfl.oz. <b>Rose Geranium Extract.</b> Oil of rose geraniumfl.oz. Alcoholfl.oz. <b>Spring Flowers Extract.</b> Essence of rosefl.oz Essence of rosefl.oz Compound spirit of rosefl.oz Tincture of ambergrisfl.oz Oil of bergamotfl.dr. Essence of cassiefl.dr. Essence of tuberosefl.dr. Essence of tuberosefl.dr.	2 10 2¼ 10½ 10½ 15 
Essence of tuberosefl.oz. Tincture of tonkafl.dr. Verbena extractfl.dr. Alcohol fl.oz. <b>Rose Geranium Extract.</b> Oil of rose geranium fl.oz. Alcohol fl.oz. <b>Spring Flowers Extract.</b> Essence of rosefl.oz Essence of rosefl.oz Essence of violet fl.oz Compound spirit of rosefl.oz Tincture of ambergrisfl.oz Oil of bergamotfl.dr. <b>Stephanotis Extract.</b> Essence of tuberosefl.dr. Essence of jasminefl.dr. Compourt of orrisfl.oz. Compound spiritfl.dr. Stephanotis Extract. Essence of cassiefl.dr. Essence of jasminefl.dr. Essence of jasminefl.dr. Stronger tincture of orrisfl.oz. Tincture of tonkafl.oz.	$\begin{array}{c} 2\\ 10\\ 24\\ 10\\ 11\\ 15\\ 7\\ 6\\ 1\\ 1\\ 5\\ 24\\ 4\\ 1\\ 1\\ 5\\ 24\\ 4\\ 1\\ 1\end{array}$
Essence of tuberosefl.oz. Tincture of tonkafl.dr. Verbena extractfl.dr. Alcohol fl.oz. <b>Rose Geranium Extract.</b> Oil of rose geranium fl.oz. <b>Spring Flowers Extract.</b> Essence of rosefl.oz Essence of rosefl.oz Essence of cassiefl.oz Compound spirit of rosefl.oz Tincture of ambergrisfl.oz Oil of bergamotfl.dr. <b>Stephanotis Extract.</b> Essence of tuberosefl.dr. Essence of jasminefl.dr. Essence of jasminefl.dr. Stronger tincture of orrisfl.oz. Tincture of tonkafl.oz.	$\begin{array}{c} 2\\ 10\\ 24\\ 10\\ 11\\ 15\\ 76\\ 11\\ 55\\ 24\\ 1\\ 1\\ 55\\ 24\\ 1\\ 1\end{array}$
Essence of tuberosefl.oz. Tincture of tonkafl.dr. Verbena extractfl.dr. Alcoholfl.oz. <b>Rose Geranium Extract.</b> Oil of rose geraniumfl.oz. <b>Spring Flowers Extract.</b> Essence of rosefl.oz. <b>Spring Flowers Extract.</b> Essence of rosefl.oz. Compound spirit of rosefl.oz Tincture of ambergrisfl.oz Oil of bergamotfl.oz <b>Stephanotis Extract.</b> Essence of cassiefl.dr. Essence of cassiefl.dr. Essence of cuberosefl.dr. Essence of tuberosefl.dr. Essence of tuberosefl.dr. Stronger tincture of orrisfl.oz. Tincture of tonkafl.oz. Tincture of tonkafl.oz. Tincture of muskfl.oz. Tincture of musk	$\begin{array}{c} 2 \\ 10 \\ 24 \\ 10 \\ 11 \\ 15 \\ 7 \\ 6 \\ 1 \\ 1 \\ 5 \\ 24 \\ 1 \\ 1 \\ 4 \\ 1 \\ 1 \\ 4 \\ 1 \\ 1 \\ 1 \\ $
Essence of tuberosefl.oz. Tincture of tonkafl.dr. Verbena extractfl.dr. Alcoholfl.oz. <b>Rose Geranium Extract.</b> Oil of rose geraniumfl.oz. <b>Spring Flowers Extract.</b> Essence of rosefl.oz. <b>Spring Flowers Extract.</b> Essence of rosefl.oz. Compound spirit of rosefl.oz Tincture of ambergrisfl.oz Oil of bergamotfl.oz <b>Stephanotis Extract.</b> Essence of cassiefl.dr. Essence of cassiefl.dr. Essence of stuberosefl.dr. Essence of tuberosefl.dr. Stronger tincture of orrisfl.oz. Tincture of tonkafl.oz. Tincture of tonka	$\begin{array}{c} 2\\ 10\\ 24\\ 10\\ 1\\ 15\\ 15\\ 55\\ 24\\ 1\\ 1\\ 4\\ 4\\ 1\\ 4\\ 4\\ 1\\ 4\\ 4\\ 1\\ 4\\ 4\\ 1\\ 4\\ 4\\ 1\\ 4\\ 4\\ 1\\ 4\\ 4\\ 1\\ 1\\ 4\\ 4\\ 1\\ 1\\ 4\\ 4\\ 1\\ 1\\ 4\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$
Essence of tuberosefl.oz. Tincture of tonkafl.dr. Verbena extractfl.dr. Alcoholfl.oz. <b>Rose Geranium Extract.</b> Oil of rose geraniumfl.oz. <b>Spring Flowers Extract.</b> Essence of rosefl.oz. <b>Spring Flowers Extract.</b> Essence of rosefl.oz. Compound spirit of rosefl.oz Tincture of ambergrisfl.oz Oil of bergamotfl.oz <b>Stephanotis Extract.</b> Essence of cassiefl.dr. Essence of cassiefl.dr. Essence of cuberosefl.dr. Essence of tuberosefl.dr. Essence of tuberosefl.dr. Stronger tincture of orrisfl.oz. Tincture of tonkafl.oz. Tincture of tonkafl.oz. Tincture of muskfl.oz. Tincture of musk	$\begin{array}{c} 2\\ 10\\ 24\\ 10\\ 1\\ 15\\ 7\\ 6\\ 1\\ 15\\ 5\\ 24\\ 4\\ 1\\ 1\\ 4\\ 30 \end{array}$
Essence of tuberosefl.oz. Tincture of tonkafl.dr. Verbena extractfl.dr. Alcoholfl.dr. Oil of rose geranium Extract. Oil of rose geraniumfl.oz. Alcoholfl.oz. Spring Flowers Extract. Essence of rosefl.oz. Essence of rosefl.oz. Essence of rosefl.oz. Compound spirit of rosefl.oz Tincture of ambergrisfl.oz Oil of bergamotfl.dr. Stephanotis Extract. Essence of cassiefl.dr. Essence of cassiefl.dr. Essence of rosefl.dr. Storoger tincture of orrisfl.oz. Tincture of muskfl.oz. Tincture of muskfl.oz. Tincture of muskfl.oz. Spirit of rosefl.dr. Essence of jasminefl.dr. Essence of jasminefl.dr. Stronger tincture of orrisfl.oz. Tincture of muskfl.oz. Tincture of musk	$\begin{array}{c} 2\\ 10\\ 24\\ 10\\ 1\\ 15\\ 7\\ 6\\ 1\\ 15\\ 5\\ 24\\ 4\\ 1\\ 1\\ 4\\ 30 \end{array}$
Essence of tuberosefl.oz. Tincture of tonkafl.dr. Verbena extractfl.dr. Alcohol fl.oz. <b>Rose Geranium Extract.</b> Oil of rose geranium fl.oz. <b>Spring Flowers Extract.</b> Essence of rosefl.oz. <b>Spring Flowers Extract.</b> Essence of rosefl.oz. Compound spirit of rosefl.oz. Tincture of ambergrisfl.oz. Oil of bergamotfl.dr. <b>Stephanotis Extract.</b> Essence of cassiefl.dr. Essence of cassiefl.dr. Stronger tincture of orrisfl.oz. Tincture of ansinefl.dr. Stronger tincture of orrisfl.oz. Tincture of tuberosefl.oz. Tincture of tuberosefl.dr. Essence of jasminefl.dr. Stronger tincture of orrisfl.oz. Tincture of muskfl.oz. Tincture of muskfl.oz. Spirit of rosefl.dr. Benzoic acid	$\begin{array}{c} 2\\ 10\\ 24\\ 10\\ 1\\ 1\\ 5\\ 4\\ 6\\ 1\\ 1\\ 5\\ 5\\ 4\\ 4\\ 1\\ 1\\ 4\\ 4\\ 30\\ 16 \end{array}$

Sweet Pea Extract.
Essence of tuberosefl.oz. 5 Essence of orange flowersfl.oz. 5
Essence of rosefl.oz. 5 Tincture of tonkafl.oz. 2
Upper Ten Extract.
Tincture of vanillafl.oz. 4
Tincture of ambergris fl.oz. 3
Stronger tincture of orrisfl.oz. 3
Compound spirit of rose
Essence of orange flowersfl.oz. 3 Oil of bergamotfl.dr. 19
Oil of lemondrops 15
Verbena Extract.
L. Essence of orange flowersfl.oz. 3
Essence of tuberosefl.oz. 3
Compound spirit of rose fl.oz. 3
Spirit of lemon grass,
Spirit of nerolifl.dr. 10 Oil of lemonfl.dr. 5
Oil of lemonfl.dr. 5]
Oil of orangefl.dr. 21 Alcoholfl.oz. 3
II.
Oil of orangedrops 30
Spirit of lemonfl.oz. 10
Spirit of lemon grassfl.oz. 6
III.
Spirit of lemonfl.oz. 21
Spirit of lemon grassfl.oz. 4
Stronger tincture of orrisfl.oz. 1
Alcoholfl.oz. 8
IV.
Spirit of lemon fl.oz. 10
Spirit of lemon grassfl.oz. 6
Oil of orangefl.dr. 10
Violet Extract.
I.
Essence of violetfl.oz. 11
Essence of cassiefl.or. 2 Tincture of muskfl.or. 1
Stronger tincture of orrisfl.oz. 2
II.
Essence of cassiefl.oz. 6
Essence of rosefl.oz. 3
Essence of tuberosefl.oz. 3
Stronger tincture of orrisfl.oz. 3
Spirit of almondfl.oz. I
III.
Essence of violetfl.oz. 4%
Essence of cassiefl.dr. 2% Stronger tincture of orrisfl.dr. 3
Spirit of almondfl.dr. 1
Alcoholfl.oz. 10
IV.
Essence of cassie fl.or. 5
Essence of violet
Nocabon of Wolat

### PERFUMES.

Violet de Parme Extract. (Parmese	West End Extract.
Violet Extract.)	I. ·
1.	Essence of jasminefl.oz. 1
Essence of violetfl.oz. 7	
Essence of cassiefl.oz. 4	Essence of cassiefl.oz. 1 Stronger tincture of orrisfl.oz. 3
Spirit of orrisfl.oz. 2 Compound spirit of rosefl.oz. 1	Tincture of muskfl.oz. 2
Spirit of almondfl.dr. 34	Tincture of storaxfl.dr. 2
Tincture of civetfl.oz.	Spirit of rosefl.dr. 4
Tincture of ambergrisfl.oz. 1	Spirit of cedarfl.dr. 5 Spirit of nerolifl.dr. 4
Alcoholfl.oz. 1	Oil of verbenadrops 4
II.	Benzoic acid
Essence of cassiefl.oz. 21	Alcohol, enough to make fl.oz. 16
Essence of tuberosefl.oz. 11	П.
Stronger tincture of orrisfl.oz. 3	
Spirit of rosefl.dr. 4	Essence of jasminefl.oz. 1 Essence of cassiefl.oz. 1
Spirit of almondfl.dr. 2	Stronger tincture of orrisfl.oz. 3
Alcoholfl.oz. 8	Tincture of musk
Violet (Wood) Extract.	Tincture of storaxfl.dr. 2
L	Spirit of rosefl.dr. 4
Violet extract, No. IIfl.oz. 16	Spirit of cedarfl.dr. 5
Oil of bitter almonddrops 15	Spirit of nerolifl.dr. 4
II.	Oil of verbenadrops 4
Essence of violetfl.dr. 13	Benzoic acidgr. 15 Alcohol, enough to makefl.oz. 16
Essence of cassiefl.dr. 10	Alcohol, chough to make,, n.oz. 10
Essence of rosefl.dr. 61	Ylang Ylang Extract.
Essence of tuberosefl.dr. 61	
Stronger tincture of orrisfl.dr. 10 Spirit of almondfl.dr. 11	I.
Alcoholfl.oz. 9	Spirit of ylang ylangfl.oz. 8
	Compound spirit of rosefl.oz. 4 Essence of jasminefl.oz. 2
III. Essence of violetfl.oz. 8	Tincture of civet
Essence of cassiefl.oz. 1	
Essence of tuberosefl.oz. 1	11.
Tincture of vanillafl.dr. 9	Essence of jasminefl.dr. 21
Tincture of tonkafl.dr. 21	Essence of tuberosefl.dr. 14
Tincture of muskfl.dr. 6	Essence of orange flowersfl.dr. 7 Spirit of ylang ylangfl.dr. 11
Spirit of rosefl.dr. 4	Alcoholfl.oz. 91
Spirit of bergamotfl.dr. 4 Spirit of nerolifl.dr. 4	
Alcoholfl.oz. 21	III.
	Oil of ylang ylangdrops 15
Widow McPhelan Extract.	Oil of nerolidrops 2 Oil of rosedrops 5
Essence of cassiefl.oz. 2	Oil of lemondrops 2
Essence of violetfl.oz. 1	Tincture of muskfl.dr.
Stronger tincture of orrisfl.oz. 3	Alcoholfl.oz. 16
Spirit of nutmegfl.dr. 5 <sup>1</sup> / <sub>2</sub> Spirit of pimentofl.dr. 4 <sup>1</sup> / <sub>2</sub>	IV.
Spirit of rosefl.dr. 2	
Spirit of cinnamonm. 30	Essence of jasminefl.oz. 2 Essence of violetfl.oz. 2
Ylang ylang extract No. IIfl.oz. 3	Spirit of rosefl.dr. 2
Alcoholfl.oz. 6	Spirit of ylang ylang fl.oz. 514
Wild Olive Extract.	Tincture of civetfl.oz. 2
	Alcohol, enough to makefl.oz. 16
Essence of rosefl.oz. 4	v.
Essence of violetfl.oz. 2 Essence of jasminefl.oz. 2	
reperies of Justimer	Essence of jasminefl.oz. 2
Essence of cassiefl.oz. 1 Spirit of bergamotfl.oz. 1	Essence of rosefl.oz. 4 Weaker tincture of orrisfl.oz. 6
Spirit of rosefl.dr. 2	Tincture of civet ,fl.oz. 1
Spirit of lavenderfl.dr. 21	Oil of ylang ylangfl.dr. 1
Alcohol, enough to makefl.oz. 16	Alcoholfl.oz. 4

#### Sachet Powders.

As is well known sachet powders are mixtures, in the form of moderately fine powder, which are to be inclosed in little sacks of cloth and placed with linen or wearing apparel, or stationery, etc. Sachets are preferred by some to "extracts," because there is no fear of using too much and thus making the user appear "loud" or vulgar. The objection to sachet powders is the want of permanency; they are liable to lose their odor even if carefully preserved, and the purchaser may therefore receive a sachet powder which can not be compared, in strength or delicacy. with a good "extract." For this reason sachet powders are frequently "freshened" by the addition of the corresponding "extract," viz., violet sachet by violet extract, etc.

Sachet powders are composed of two kinds of ingredients, viz., the "body" or vehicle, and the odorous agents. The first almost invariably contains orris root; this may be the only "body," or it may be combined with rose petals, orange peel, or lavender flowers, or a mixture of several of these. The odorous agents are the same as those employed in making "extracts." Remarks made with reference to the production of the latter will in a large measure apply to the sachet powders. For example, the best ingredients are required to make good sachet powders, whereas indifferent ingredients cannot but produce poor products. All such substances as orris, orange peel, etc., must be perfectly fresh and odorous, and the oils, etc., must be of superior quality.

In preparing sachet powders, the orris, rose petals, lavender flowers, and similar solid ingredients should be mixed and ground in a mill; the musk, civet, ambergris, vanilla, and tonka should be triturated to an intimate mixture with a portion of this powder; the solid resins or gum resins, like benzoin, should be contused in a mortar until reduced to moderately fine powder; all these ingredients should now be mixed, pow placed in a large mortar, the oils, tinctures, and other liquids added, and the whole mixed intimately by trituration. When the pow quantity of volatile oil is very small, it may be

advantageous first to dissolve in a small amount of alcohol.

Sachet powders should be preserved in rather small, well-stoppered bottles in a location of moderate temperature and be protected from light.

#### Cassie or Acacia Sachet.

Cassie f	low	ers	 1	 	• •	 		.av.oz. 8	
Orris ro	ot.			 	• •	 		.av.oz. 8	

Pass each separately through a mill to reduce to tolerably fine powder, then mix, and pass through mill again, to reduce to finer powder.

#### Clove Pink Sachet.

	8
	£
Patchouly leaves av.oz.	3
Clovesav.oz.	1
Deer tongueav.oz.	1
Pimentoav.oz.	+
Muskgr. 8	3
Oil of rosedrops 40	)
Oil of nerolidrops 4	5
Oil of sandalwooddrops 80	)
Oil of lavenderdrops 40	
and do a state of the state of the state	

Mix the first six ingredients, grind to a moderately fine powder, triturate the musk to an intimate mixture with a portion of this powder, add the remainder of the powder and the oils, and mix the whole thoroughly.

The deer tongue may be replaced by tonka if desired.

#### Essence Bouquet Sachet.

I.

Orange peel, recently driedav.oz. 4
Sandalwoodav.oz. 4
Rose petalsav.oz. 4
Orris root av.oz. 4
Muskgr. 2
Coumaringr. 4
Vanillingr. 4
Oil of rosedrops 12
Oil of bergamotdrops 12
Oil of nerolidrops 5
Oil of ylang ylang drops 5
Oil of rose geraniumdrops 4
Oil of cassiadrops 5
Oil of bitter almonddrops 3
Essence of jasminefl.oz. 1

Mix the first four ingredients, grind to powder in a mill, triturate the musk, coumarin, and vanillin with a portion of the ground material, add to the remainder of the pow ' add the oils and essence, and II.

Orris powderav.oz. 16
Muskgr. 10
Oil of rosefl.dr. 2
Oil of lemonfl.dr. 1
Oil of bergamotfl.dr. 4

Triturate the musk with a small portion of the orris until well mixed, add the remainder of the orris and the oils, and triturate to an intimate mixture.

#### Frangipanni Sachet.

#### I.

Orris root	.av.oz.	8
Rose petals	.av.oz.	8
Vanilla	.av.oz.	+
Benzoin	.av.oz.	+
Oil of lavender	fl.dr.	1
Oil of bergamot	fl.dr.	1
Oil of cassia		
Oil of pimento	. drops	40
Oil of sandalwood	fl.dr.	2
Oil of neroli	. fl.dr.	1
Oil of rose	.drops	32

Grind the orris and rose separately to coarse powder, mix, pass through mill again to reduce to somewhat finer powder, triturate the vanilla to powder with a portion of this mixture, also reduce the benzoin to powder, mix the whole, add the oils, and triturate to an intimate mixture.

II.

Orris rootav.oz.	4
Rose petalsav.oz.	4
Wild thyme av.oz.	
Sassafras woodav.oz.	
Orange peel, recently driedav.oz.	
Muskgr,	1
Civetgr.	
Coumaringr.	3
Oil of rosedrops	6
Oil of sandalwooddrops	5
Oil of rose geraniumdrops	5
Oil of bitter almonddrops	2
Essence of jasminefl.oz.	1
	· · · ·

Prepare similar to essence bouquet sachet No. II.

#### III.

Orris, powder
Vetivertav.oz. 1
Sandalwoodav.oz. 1
Vanillaav.oz. 1
Tonka beansav.oz.
Oil of nerolidrops 15
Oil of sandalwooddrops 10
Oil of bergamotdrops 15
Oil of rose geraniumdrops 15
Oil of rosedrops 8
Tincture of muskfl.dr. 2
Tincture of civetfl.dr. 1
Prepare like the preceding.

#### Heliotrope Sachet.

I.		
Rose petals	av.oz.	71
Orris root	.av.oz.	31
Lavender flowers	.av.oz.	34
Tonka beans		1
Benzoin	.av.oz.	- 1
Musk	gr.	20
Oil of bitter almond		
Oli of sandalwood		
Oil of neroli	.drops	40
Prepare like the preceding.		

#### II.

Orrisav.oz.	8
Red rose petalsav.oz.	4
Tonkaav.oz.	2
Vanillaav.oz.	1
Muskgr.	18
Oil of bitter almonddrops	2

Mix the first two ingredients and grind to powder in a mill; contuse the vanilla, tonka, and sufficient of the orris root together until the first two are reduced to a fine powder; triturate the musk with a portion of this powder, add the remaining ingredients, and mix the whole intimately in a mortar.

### III.

Orrisav.oz.	4
Rose petalsav.oz.	4
Sandalwoodav.oz.	+
Orange peel, recently driedav.oz.	71
Heliotropingr.	1
Vanillin gr.	2
Coumaringr.	+
Tincture of ambergrisdrops	6
Oil of rosedrops	12
Oil of rose geraniumdrops	2
Oil of nerolidrops	3
Oil of ylang ylangdrop	1
Spirit of almondfl.dr.	1
Essence of jasminefl.dr.	4

Reduce the first four ingredients to powder by grinding in a mill, add the other ingredients and mix well.—D.

### Jockey Club Sachet.

I.

Lavender flowersav.oz.	2
Rose petalsav.oz.	6
Orrisav.oz.	8
Vanillagr. 1	20
	16
Essence of jasminefl.oz.	1
Oil of sandalwooddrops	
Oil of nerolidrops	
Oil of rosedrops	40
Reduce the first three ingredient	s to

powder by grinding in a mill, contuse the vanilla with a portion of the ground mixture to powder; also triturate the musk with a Marechale Sachet. portion of the powder intimately, add the oils ! and essence, and mix the whole thoroughly by trituration in a mortar.

11.	
Orris, powder	av.oz. 12
Sandalwood, ground	
Oil of bergamot	
Oil of rose	
Tincture of musk	
Tincture of civet	fl.dr. 2
N/ .1 · · · · ·	

Mix the orris and sandal, add the other ingredients, and triturate until well mixed.

#### III.

Orris	98 07	1
Kose petals		4
Orange peel, recently dried	. av. oz.	63
Sandalwood	gr.	140
Cloves		35
Sumatra benzoin		375
Tincture of civet		10
Tincture of musk		5
Coumarin		+
Oil of rose	. drops	7
Oil of bergamot		10
Oil of rose geranium		3
Oil of neroli	. drops	2
Oil of cassia	drop	1
Oil of coriander	drop	1
Oil of bitter almond	drop	1
Oil of ylang ylang	drop	1
Essence of jasmine	fl.dr.	6

Mix the first four ingredients, reduce to p powder by grinding in a mill, contuse the w benzoin to powder, and then mix all the ingredients thoroughly by trituration in a mortar.-D.

#### Lavender Sachet.

Ι.	
Lavender flowersav.oz.	13
Benzoinav.oz.	3
Oil of lavenderfl.dr.	11

Reduce the lavender and benzoin each to powder, mix, add the oil, and triturate until well mixed.

#### Π.

Lavender flowersav.oz.	13
Benzoinav.oz.	3
Oil of bergamotfl.dr.	11
Oil of lavenderfl.dr.	
Prepare like the preceding.—H.	

#### III.

Lavender flowersay.oz.	16
Benzoinav.oz.	1
Oil of lavenderfl.dr.	4
Tincture of muskfl.dr.	4
Prepare lilie the preceding.	

Sandalwood	av.oz.4
Оптія	av. 0 2. 8¥
Rose petals	av. 🗢 💷 3
Cloves	av 2.24
Cassia bark	av 2. 214
Tincture of musk	drp1

Reduce the first five ingredients to memoderately fine powder by grinding in a milmen, add the tincture of musk and mix well by the ituration.-H.

#### Millefleurs Sachet.

, <b>I</b> .
Lavender flowersav.oz. 3
Cloves
Cassia budsav.oz.
Corlander
Denzoin
Nutneg
Oms
Vanilla
MUSK
Uni or rose
Uni of neron
On or patchourydrops
Oil of lavender (English)drops
Oil of verbenadrops Oil of sandaiwooddrops
Contuse the orris and nutmer, and
lavender, cloves, cassia, and coriander,
all together in a mill to moderately fin
powder, triturate the vanilla and musk ereac
with a portion of this powder until
mixed, contuse the benzoin to powder,
the whole, add the oils and mix all t
oughly by trituration.
11.
Lavender flowersav.oz. 🗲
Orrisav.oz.
Rose petalsav.oz.
Benzoinav.oz.
Tonka
Vanillaav.oz.

Sandalwood.....av.oz.

Cardamon .....av.oz. Cassia bark.....av.oz. Musk.....gr. 7 Grind the lavender, orris, rose petals sandal, cloves, cardamom, and cassia together in a mill to moderately fine powder, triturat 🗯

the vanilla and tonka with a portion of thi 🕿 mixture until reduced to powder, also tritu == rate the musk with another portion until wel mixed, contuse the benzoin to fine powder. and mix the whole together thoroughly.-H-

er flowersav.oz. 21/2
lowers
etals
av.oz. 5
'oodav.oz. 11
gr. 135
on
gr. 200
e of civet
e of musk
bergamotm. 40
se geranium drops 5
patchouly
parenear)
e first seven ingredients, grind to-
a mill to moderately fine powder,
ne benzoin to fine powder, triturate
and tonka with some of the ground
o fine powder, mix all three, add

trituration in a mortar.

	-
rose	lrops 2
ium carbonate	
	gr. 18
30wdera	v.oz. 16
imately. The proportion	ns may be
desired.	

and oils, and mix the whole inti-

#### wn Hay Sachet.

av.oz.	4
etalsav.oz.	4
flowersav.oz.	2
eedav.oz.	2
av.oz.	2
1gr.	290
verbenadrops	15
vitter almonddrops	15

he orris, rose petals, orange flowers, c seed together in a mill to modne powder, triturate the tonka with of this to fine powder, also contuse in to powder, mix all, add the oils, he whole intimately by trituration.

xowderav.oz. 13	
av.oz. 11	
av.oz. 1	
pitter almonddrops 2	
ose geraniumdrops 24	
rosedrops 6	
pergamotdrops 12	
e of muskfl.dr. $2\frac{1}{2}$	
te the tonka and vanilla with th	¢
ine powder, add the oils and tind	
mix well by trituration.	

1	r	1	r	٦	r	

11		
	Deer tongue leavesav.oz.	8
	Orrisav.oz.	4
	Orange flowersav.oz.	4
	Rose petalsav.oz.	ł
	Mix and grind to moderately fine pow	vder
in	a mill	

#### **Opoponax Sachet.**

Orrisav.oz.	8
Rose petalsav.oz.	21
Cassie flowersav.oz.	2i
Tonkagr.	290
Vanillaav.oz.	ł
Muskgr.	75
Oil of citronelladrops	8
Oil of lemondrops	
Oil of bergamotdrops	
Oil of patchoulydrops	5
Oil of rose geraniumdrops	10
Oil of rosedrop	1
Tincture of civetm.	40

Mix the first three ingredients, grind to moderately fine powder in a mill, triturate the vanilla and the tonka with a portion of this powder until a fine mixture is produced, add the remainder of the ground mixture, the oils and the tincture, and mix well by trituration.

#### **Oriental Sachet.**

Orrisav.oz.	21
Calamusav.oz.	24
Sandalwoodav.oz.	11
Rosewood	11
Clovesgr.	270
Cassiagr.	270
Orange peel, recently dried av. oz.	24
Rose petalsav.oz.	21
Musk seedav.oz.	11
Benzoingr.	270
Myrrhgr.	270
Tincture of ambergrism.	

Mix all but the myrrh, benzoin, and tincture; grind to moderately fine powder, contuse the benzoin and myrrh to powder, mix all, add the tincture of ambergris, and triturate until well mixed.

#### Patchouly Sachet.

I. Patchouly herb	av.oz. 8
Lavender flowers	av.oz. 8
Orris	av.oz. 2
Cloves	av. oz. 1
Oil of bergamot	.fl.dr. 1
Oil of patchouly	
Tincture of ambergris	
Tincture of musk	
Mix the first four ingredients,	grind t

Mix the first four ingredients, grind to moderately fine powder in a mill, add the other ingredients and mix well. THE STANDARD FORMULARY.

to powder; also triturate the musk with a Marechale Sachet. portion of the powder intimately, add the oils and essence, and mix the whole thoroughly by trituration in a mortar. II. Orris, powder .....av.oz. 12 Sandalwood, ground.....av.oz. 2 Oil of bergamot.....fl.dr. 2 Oil of rose.....drops 8 Tincture of musk.....fl.dr. 4 Tincture of civet.....fl.dr. 2 Mix the orris and sandal, add the other ingredients, and triturate until well mixed. Τ. III. Orris. ..... av.oz. 4 Rose petals.....av.oz. 4 634 Orange peel, recently dried ... av.oz. Sandalwood ......gr. 140 35 Sumatra benzoin......gr. 375 Tincture of civet.....drops 10 Tincture of musk........drops 5 Coumarin .....gr. 支 7 Oil of rose.....drops Oil of bergamot ..... drops 10 Oil of rose geranium.....drops Oil of neroli.....drops 3 2 Oil of cassia .....drop 1 Oil of coriander.....drop 1 Oil of bitter almond ..... drop 1 Oil of ylang ylang.....drop Essence of jasmine.....fl.dr. Mix the first four ingredients, reduce to

powder by grinding in a mill, contuse the benzoin to powder, and then mix all the ingredients thoroughly by trituration in a mortar.-D.

### Lavender Sachet.

Lavender					
Benzoin		240	 	av.oz.	3
Oil of lave	ender		 	.fl.dr.	11

Reduce the lavender and benzoin each to powder, mix, add the oil, and triturate until well mixed.

#### II.

I.

Lavender flowersav.oz.	13
Benzoinav.oz.	
Oil of bergamotfl.dr.	14
Oil of lavenderfl.dr.	$2\frac{1}{2}$
Prepare like the preceding H.	

#### TIT.

Lavender flowersay.oz.	16
Benzoinav.oz.	1
Oil of lavenderfl.dr.	4
Tincture of muskfl.dr.	4
Prepare like the preceding.	

Sandalwoodav.oz.	44
Orrisav.oz.	334
Rose petalsav.oz.	
Cloves	24
Cassia barkav.oz.	
Tincture of muskdrop	1

Reduce the first five ingredients to moderately fine powder by grinding in a mill, add the tincture of musk and mix well by trituration.-H.

#### Millefleurs Sachet.

Lavender flowersav.oz.	3
Clovesav.oz.	1
Cassia budsav.oz.	1
Corianderav.oz.	2
Benzoingr.	120
Nutmeggr.	120
Orrisav.oz.	8
Vanilla	
Muskgr.	20
Oil of rosedrops	20
Oil of nerolidrops	16
Oil of patchoulydrops	8
Oil of lavender (English)drops	16
Oil of verbenadrops	8
Oil of sandalwooddrops	40

Contuse the orris and nutmeg, add the lavender, cloves, cassia, and coriander, grind all together in a mill to moderately fine powder, triturate the vanilla and musk each with a portion of this powder until well mixed, contuse the benzoin to powder, mix the whole, add the oils and mix all thoroughly by trituration.

#### II.

Lavender flowers	24
Orrisav.oz.	24
Rose petalsav.oz.	21
Benzoinav.oz.	21
Tonkaav.oz.	24
Vanillaav.oz.	
Sandalwoodav.oz.	X
Clovesav.oz.	
Cardamonav.oz.	36
Cassia barkav.oz.	36
Muskgr.	7

Grind the lavender, orris, rose petals, sandal, cloves, cardamom, and cassia together in a mill to moderately fine powder, triturate the vanilla and tonka with a portion of this mixture until reduced to powder, also triturate the musk with another portion until well mixed, contuse the benzoin to fine powder, and mix the whole together thoroughly .- H.

#### III

A.A.	1000
Lavender flowersav.oz.	24
Cassia flowersav.oz.	21
Rose petalsav.oz.	24
Orrisav.oz.	5
Sandalwoodav.oz.	114
Cloves	135
Cinnamongr.	135
Benzoingr.	270
Tonkagr.	270
Vanilla gr.	200
Tincture of civetm.	40
Tincture of muskm.	40
Oil of bergamotm.	40
Oil of rose geranium drops	5
Oil of patchoulydrops	2

Mix the first seven ingredients, grind together in a mill to moderately fine powder, contuse the benzoin to fine powder, triturate the vanilla and tonka with some of the ground material to fine powder, mix all three, add tinctures and oils, and mix the whole intimately by trituration in a mortar.

#### Musk Sachet.

Oil of rosedrops 2	
Ammonium carbonategr. 6	
Musk	
Orris, powderav.oz. 16	
Mix intimately. The proportions may	be

altered if desired.

### New Mown Hay Sachet.

#### I.

Orrisav.oz.	4
Rose petalsav.oz.	4
Orange flowersav.oz.	2
Musk seedav.oz.	2
A STATEMENT MENT STATEMENT STA	2
Benzoingr. 29	0
Oil of verbenadrops 1	5
Oil of bitter almonddrops 1	

Grind the orris, rose petals, orange flowers, and musk seed together in a mill to moderately fine powder, triturate the tonka with a portion of this to fine powder, also contuse the benzoin to powder, mix all, add the oils, and mix the whole intimately by trituration. IL.

Orris, powderav.oz.	13
Tonka	
Vanillaav.oz.	11
Oil of bitter almonddrops	2
Oil of rose geraniumdrops	24
Oil of rosedrops	6
Oil of bergamot, drops	12
Tincture of muskfl.dr.	21

Triturate the tonka and vanilla with the Mix the first four ingredients, grind to orris to fine powder, add the oils and tinc- moderately fine powder in a mill, add the ture, and mix well by trituration.

#### III.

	Deer tongue leavesav.oz. 8
	Orrisav.oz. 4
	Orange flowersav.oz. 4
	Rose petalsav.oz.
	Mix and grind to moderately fine powder
in	a mill.

#### **Opoponax** Sachet.

Orris	.av.oz.	8
Rose petals	.av.oz.	21
Cassie flowers	.av.oz.	21
Tonka	gr.	290
Vanilla		+
Musk	gr.	75
Oil of citronella	.drops	3
Oil of lemon	.drops	5
Oil of bergamot	.drops	20
Oil of patchouly	.drops	5
Oil of rose geranium		10
Oil of rose		1
Tincture of civet	m.	40

Mix the first three ingredients, grind to moderately fine powder in a mill, triturate the vanilla and the tonka with a portion of this powder until a fine mixture is produced, add the remainder of the ground mixture, the oils and the tincture, and mix well by trituration.

### Oriental Sachet.

Orrisav.oz.	24
Calamusav.oz.	21
Sandalwoodav.oz.	14
Rosewoodav.oz.	
Clovesgr. \$	
Cassiagr. 1	270
Orange peel, recently driedav.oz.	
Rose petalsav.oz.	21
Musk seedav.oz.	
Benzoingr. 2	
Myrrh	
Tincture of ambergrism.	20
	and the second second

Mix all but the myrrh, benzoin, and tincture; grind to moderately fine powder, contuse the benzoin and myrrh to powder, mix all, add the tincture of ambergris, and triturate until well mixed.

#### Patchouly Sachet.

T.

. Patchouly herb av.oz. 8	5
Lavender flowersav.oz. 8	
Orrisav.oz. 2	
Clovesav.oz. 1	
Oil of bergamot,fl.dr. 1	
Oil of patchoulydrops 2	
Tincture of ambergrisfl.dr.	+
Tincture of muskfl.dr.	+
***	

other ingredients and mix well.

#### II.

Patchouly leaves av. oz.	12
Orrisav.oz.	
Oil of patchouly drops 1	12
Oil of rose geraniumdrops 1	12

Mix the patchouly and orris, grind together in a mill to moderately fine powder, add the other ingredients and mix well.

#### III.

Patchouly herbav.oz.	10
Orrisav.oz.	5
Rosewoodav.oz,	1+
Benzoinav.oz.	11
Oil of patchoulyfl.dr.	-
Oil of rosedrops	5

Mix the first three ingredients, grind together in a mill to moderately fine powder, contuse the benzoin to powder, add to the previous mixture, to the whole add the oils, and mix intimately.

#### Rondeletia Sachet.

Orrisav.oz. 1	2
Lavender flowersav.oz.	8
Cloves	
Musk	
Tincture of ambergrisfl.dr.	2
Oil of rose geraniumdrops	8
Oil of bergamotdrops 3	0
Oil of clovesdrops 3	0
Oil of lavenderdrops 3	0
Oil of rosedrops	

Mix the first three ingredients, grind to moderately fine powder in a mill, triturate the musk with a portion of this powder until well mixed, add this to the remainder of the powder, then add the oils and tincture, and mix the whole thoroughly.

#### Rose Sachet.

1.	Rose petalsav.oz. 1	6
	Dil of rose geraniumdrops 3	
	Oil of rosedrops 3	0
	Fincture of ambergrisdrops 2	0
	Fincture of muskdrops 1	0

Grind the rose petals to moderately fine powder, add the other ingredients, and mix thoroughly.

### II.

Orrisav.oz.	8
Rose petalsav.oz.	8
Sandalwoodav.oz.	14
Patchouly herbgr.	270
Tincture of civet	80
Oil of rose geraniumdrops	10
Oil of rosedrops	7

Mix the orris, rose petals, sandal, and patchouly, grind to moderately fine powder in

#### Sweet Brier Sachet.

Orris, groundav.oz. 13
Sandalwood, ground av.oz. 3
Oil of rose geraniumdrops 6
Oil of nerolidrops 12
Oil of verbenadrops 24
Oil of bergamot drops 8
Oil of lemondrops 12
Oil of rosedrops 6
Tincture of ambergris
Tincture of musk
Mix the whole thoroughly.

#### Verbena Sachet.

Orris, groundav.oz.	16
Oil of bergamotm.	40
Oil of verbenafl.dr.	
Oil of rose geraniumdrops	10
Tincture of muskm.	80
Mix the whole thoroughly	

#### Violet Sachet.

Orris,	groundav.oz.	16
Oil of	bergamotdrops	10
Oil of	bitter almondsdrops	7
.Oil of	rosedrops	7
Tinct	are of muskfl.dr.	21/2
Mix H	a whole thoroughly.	

#### Wild Flowers Sachet.

Canada snake root	.av.oz. 4
Coriander	.av.oz. 3
Deer tongue	.av.oz. 2
Lavender flowers	.av.oz. 2
Sweet flag root	.av.oz. 1/2
Patchouly leaves	.av.oz. 1
Nutmeg	
Oil of bergamot	fl.dr. 24
Oil of neroli	.drops 40
Oil of sandalwood	.drops 80
Oil of verbena	.drops 20
Oil of patchouly	drops 20
Essence of jasmine	fl.dr. 1

Break the nutmeg into small pieces, mix with first seven ingredients, grind the whole in a mill to moderately fine powder, add the remaining ingredients, and mix thoroughly.

### Ylang Ylang Sachet.

1.

Orrisav.oz.	5
Rose petalsav.oz.	5
Orange peel, recently dried av. oz.	61
Coumaringr.	1
Vanillingr.	2
Tincture of civet drops	48
Tincture of muskdrops	24
Oil of ylang ylang drops	12
Oil of rosedrops	8
Oil of bergamot drops	4
Essence of jasminefl.dr.	3

Mix the first three ingredients, reduce to a mill, add the other ingredients and mix well. moderately fine powder in a mill, dissolve the

PERFUMES.

coumarin and vanillin in the remaining ingredients, and mix the whole thoroughly.

Orrisav.oz.	8
Rose petalsav.oz.	21/2
Cassie flowers	21/2
Pimentogr.	280
Tonkagr.	140
Vanillagr.	140
Benzoingr.	70
Oil of pimentodrops	10
Oil of bergamotdrops	20
Oil of rose geranium drops	10
Oil of ylang ylang drops	20
Oil of rosedrops	30
Tincture of muskfl.dr.	14
Tincture of civet drops	40

Mix the first four ingredients, grind to moderately fine powder in a mill, triturate the tonka and vanilla with a solution of this mixture to powder, contuse the benzoin to powders. powder, mix all, add the oils and tinctures, and mix the whole thoroughly.

#### III.

Orris, groundav.oz.	15
Benzoinav.oz.	
Musk gr.	110
Oil of ylang ylang drops	30
Oil of rosedrops	15

Contuse the benzoin to powder, triturate the musk intimately with a portion of the orris, add the remainder of the orris, the benzoin, and the oils, and mix the whole thoroughly.

#### Solid Perfumes.

The novelty sold under this name is prepared by melting paraffin in a water bath, adding odorous substances when nearly cool, and molding into small tablets. The following formulas may be employed in preparing them, each of the mixtures given being sufficient for 4 av.ounces of paraffin.

I.

.fl.dr. m.	$\frac{1}{20}$
fl.dı	. J
fl.dı	. 1/
fl.di	. 1
.drop	s 2
gr.	10
	.fl.dr. .fl.dr. .m. .fl.dr. .gr. .fl.dr .fl.dr .fl.dr .fl.dr .fl.dr .fl.dr .fl.dr .fl.dr

z	III.	
1	Oil of linaloefl.dr.	2
	Oil of bergamotm.	
	Oil of lemonm.	
,	Heliotropingr.	20
1012	IV.	
1	Oil of ylang ylangfl.dr.	2
	Oil of nerolifl.dr.	
	Oil of sandalwoodfl.dr.	1/2
1	Coumarin	
	Tincture of muskm.	20
1	V.	
	Oil of bergamotfl.dr.	4
	Oil of rose geraniumm.	20
4	Oil of nerolim.	30
1	Oil of lemonfl.dr.	1
5	Oil of orangefl.dr.	1
21	Oil of rosemarym.	20
e	Oil of lavenderm.	
s	These tablets are intended to replace s	achet
	an arrest later.	

Pot Pourris.

I.

These are mixtures of odorous substances, in rather coarse condition, to be placed in open jars and intended for scenting rooms. The individual particles should be of about the size of a split pea, and such substances as orris, benzoin, etc., should be reduced to this size by appropriate means. In making good pot pourri mixtures, the best materials are required.

Extra perfume, such as an "extract," may be added to these pot pourris if desired.

the second s		
Lavender flowers	av.oz.	4
Orris	.av.oz.	4
Rose petals	av.oz.	4
Cloves	av.oz.	1
Cinnamon	av.oz.	1
Siam benzoin	av.oz.	1
Pimento	.av. oz.	1
Table salt	.av.oz.	2
Vanilla		34
Musk	gr.	10034
Oil of bergamot		30
Oil of lemon	.drops	30
Oil of lavenderflowers	.drops	15
Oil of sandalwood	. drops	15
Oil of rose geranium	.drops	15
Oil of rose		21/2
Tincture of ambergris		1/2

Reduce the orris, rose petals, cloves, cinnamon, benzoin, pimento and vanilla to particles of suitable size, add the lavender, salt and musk, and then the oils, and tincture and mix well.

THE STA.	NDARD	FORMULARY
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II. To 1 pint of rose petals, add	II.	To	l pint of	rose	petals	, add
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Orris	,av.oz. 2
Pimento	gr. 220
Cloves	gr. 220
Cascarilla	
Musk	
Oil of rose	
Prepare like the preceding.	
III.	
Sandalwood	av.oz. 6
Orris	av.oz. 6
Benzoin	
Cloves,	.,av.oz. 1
Tonka	av.oz. 1
Mace	av.oz. 1
Musk	gr. 20
Oil of rose	
Oil of lavender	drops 30
Oil of bergamot,	fl.dr. 1
Oil of lemon	
Prepare like the preceding	

IV.

300

Rose petals	oz.	4
Lavender flowers	oz.	8
Vanilla	gr.	60
Cloves	gr.	60
Storax	gr.	60
Benzoin	gr.	60
Ambergris	gr.	20
Oil of rosedr	ops	20
Prepare like the preceding.		

### Fumigating Pastilles.

These are cone-shaped bodies produced by mixing red saunders or wood charcoal with potassium nitrate, odorous substances, and mucilage, and forming a mass. By the use of charcoal, black pastilles are obtained, while saunders produces the red variety.

When heated, these pastilles emit a pleasant odor; they are employed for this odor and for preventing and removing disease germs or foul odors caused by disease. That they are of any use except to produce a pleasant odor is doubtful.

The pastille mass may be formed into cones by means of a pastille machine, or by means of the hand similarly to the handmade suppositories.

Benzoinav.oz. 10
Charcoalav.oz. 24
Potassium nitrateav.oz. 1
Sassafras
Mucilage of acaciasufficient

Mix the first four in fine powder, add the mucilage, form a mass, and make into conical pastilles.

### II.

-	· · · · · · · · · · · · · · · · · · ·		
	Potassium nitrategr		375
	Waterfl.oz		25
	Charcoal wood, powderav.oz		30
	Tragacanth, powdergr	. 1	375
	Storaxgr	2	300
	Benzoingr	. 1	300
	Vanillingr		8
	Coumaringr		3
	Muskgr		3
	Civetgr		11/2
	Oil of rosedrop	s	20
	Oil of bergamot drop	s	15
	Oil of ylang ylangdrop	s	10
	Oil of rhodium drop	s	10
	Oil of sandalwood drop	s	5
	Oil of cinnamondrop	s	5
	Oil of orrisdroj	p.	1
	Oil of cascarilladro	P	1

Saturate the charcoal with the potassium nitrate dissolved in the water, dry the mass, powder, add the other ingredients and mix thoroughly. Beat the mixture to a plastic mass with the addition of sufficient mucilage of tragacanth containing 2 per cent of saltpeter in solution, and form into cone-shaped pastilles. In order to evenly distribute the storax throughout the mass, it may be previously dissolved in a small amount of acetic ether.—D.

#### III.

Benzoinav.oz.	
Cascarillaav.oz.	1
Myrrhav.oz.	1
Potassium nitrateav.oz.	3/2
Potassium chlorategr.	
Charcoal, woodav.oz.	4
Oil of clovesfl.dr.	
Oil of cinnamon fl.dr.	1
Oil of lavenderfl.dr.	1
Mucilage of tragacanth, sufficie	int

Mix the first six ingredients previously reduced to fine powder, add the oils, and then incorporate enough mucilage to form a mass. Divide this into pastilles weighing about 60 gr. and dry.

IV.	
Charcoal, powderav.oz.	30
Potassium nitrateav.oz.	3/2
Waterfl.oz.	
Tragacanth, powdergr.	
Tincture of benzoinfl.oz.	
Peru balsamgr.	
Storax, crudegr.	300
Tolu balsamgr.	300
Oleo-balsamic mixturefl.dr.	
Coumaringr.	8
	-

Saturate the charcoal with the potassium nitrate dissolved in the water, then dry, - I Lice to powder, and incorporate the tragaanth and then the remaining ingredients. Now form a mass by the addition of sufficient II. Theilage of tragacanth containing 2 per cent potassium nitrate in solution, and divide **> C** Dto pastilles.-D.

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	-

Red saunders, powderav.oz.	24
T'otassium nitrateav.oz.	21/2
Waterfl.oz.	<b>3</b> 3
Tragacanth, powderav.oz.	1
Tincture of benzoinfl.dr.	12
Peru baisamgr.	300
Storax, crudeav.oz.	111
l'olu balsam	11
Oleo-balsamic mixturefl.dr	21/2
Mucilage of tragacanth, con-	
taining 2 per cent of potas-	
sium nitrate	ient
Prepare like the precedingD.	

#### Τ.

Cascarillaav.oz. 5
Benzoinav.oz. 4
Olibanum
Amber
Sandaracav.oz. 1
Charcoal, wood, or red saunders.av.oz. 6
Potassium nitrateav.oz. 2
Storaxav.oz. 6
Peru balsamav.oz. 1

Mix the first seven ingredients previously reduced to powder, add the remaining ingredients, form a mass with mucilage of acacia or tragacanth, divide into pastilles and dry.-H.

#### Fumigating Powder. (Fumigating Species.)

Fumigating powder is of similar composit ion to the pastilles and is employed for the same purposes. It is in the form of coarse Dowder, free from any fine powder as well as from large, coarse pieces, and is of variegated Brilliant colors, which are often produced by the use of aniline colors dissolved in alcohol and different portions separately tinctured, or sawdust is thus colored and added to the aromatics.

I.

Benzoingr. Tolu balsamgr.	
Storaxgr.	60
Alcoholfl.oz.	
Peru balsamgr.	60
Oil of cinnamondrops	4
Oil of lavender flowersdrops	- 4

alcohol, agitate occasionally for several days, unsized paper with the liquid.

filter and add the other ingredients. Moisten clean pine sawdust with this liquid.

Sandalwood, yellowav.oz.	512
Sassafrasav.oz.	- 3 <u>¥</u>
Cinnamonav.oz.	114
Clovesav.oz.	11
Cascarillagr.	275
Potassium nitrategr.	275
Waterfl.oz.	10
Storaxav.oz.	3
Tolu balsamav.oz.	3
Etherfl.oz.	7
Benzoinav.oz.	3
Olibanumav.oz.	21/2
Juniper berriesgr.	275

Reduce the first five ingredients to a coarse powder, free from dust, then thoroughly impregnate it with a solution of the potassium nitrate in the water, and dry the mass thoroughly in the air. Dissolve the storax and balsam of tolu in the ether, and evenly and thoroughly saturate the above, after which dry quickly in the air and immediately add the last three ingredients, previously reduced to coarse powder. Finally preserve in a wellstoppered bottle. When used, a quantity of the powder should be thrown upon live coals. III.

Corianderav.oz.	3
Cassia barkav.oz.	3
Cascarillaav.oz.	3
Lavender flowersav.oz.	3
Peony flowers av. oz.	3
Orris root av.oz.	3
Juniper berriesav.oz.	3
Rose petalsav.oz.	3
Blue flowersav.oz.	3
Calendula flowersav.oz.	3
Clovesav.oz.	3
Peru balsamgr.	300
Storaxgr.	300
Oil of bergamotfl.dr.	5
Oil of lemonfl.dr.	5
Tincture of benzoin fl.dr.	5
Oil of lavender flowersfl.dr.	12
Oil of clovesfl.dr.	
Oil of cassiafl.dr.	1/2
Tincture of ambergrisdrops	
Tincture of muskdrops	12

Mix the drugs, reduce to coarse powder, and thoroughly incorporate with the other ingredients which have previously been well mixed.—II.

### Fumigating Paper.

I. Make a tincture as in No. I. under Mix the benzoin, tolu and storax with the the preceding heading and saturate pieces of

Storaxav.oz.	1
Benzoinav.oz.	1
Fumigating essencefl.oz.	2
Alcoholfl.oz.	2
Etherfl.oz.	1
Acetic acid, glacialdrops	20

Dissolve the benzoin and storax in a mixture of the alcohol and ether, filter, and add the fumigating essence and the acetic acid. Spread the mixture upon bibulous paper by means of a broad soft brush and allow it to dry. To prevent sticking, dust the surface with talcum and preserve in waxed paper. When used the paper is simply warmed on a hot plate or over a lamp.-D.

#### Fumigating Essence or Tincture.

Oil of bitter almondsdrops 2 Oil of orrisdrop 1
Coumaringr. 1
Vanillin

Mix all of the above, using 5 fluidounces of alcohol, macerate for several days, agitating occasionally; filter, and add through the filter enough alcohol to make the product measure 8 fluidounces.

This preparation may be cheapened by using four times as much alcohol and twice as much benzoin, storax, Peru balsam and oil of bergamot.-D.

#### Fumigating Vinegar.

Fumigating tincturefl.oz.	
Acetic etherfl.dr.	
Acetic acidfl.dr.	3

Mix, and after standing in a cool place a few days, filter.

by pouring it upon a hot iron.-D.

### Cologne Waters.

The cologne waters resemble the handker- chief extracts, but are much weaker; in fact, they may be produced by diluting extracts to any desired extent with alcohol, adding distilled water gradually with frequent agitation until the mixture becomes milky, and then filtering. A white rose extract would thus make a White Rose Cologne; a violet extract. Violet Cologne, etc.

Instead of diluting extracts, colognes may be prepared from second washings of pomades and adding suitable oils, tinctures, etc., as directed under " Handkerchief Extracts." They may also be prepared by mixing the ingredients specified in the formulas below. The oils, tinctures, essences, etc., should be mixed with the alcohol, and then the water should be added gradually with agitation. The mixture should then be set aside for several weeks until the mixture has blended and ' ripened," when it may be filtered.

As in the case of other odorous mixtures, superior ingredients will produce a good product, inferior ingredients a poor product.

The essences, tinctures and spirits mentioned in the formulas should be prepared according to the systems enumerated under " Handkerchief Extracts."

Suitable names for cologne waters are Newport Cologne, Opera Cologne, German Cologne, Lafayette Cologne, Farina Cologne, Victoria Cologne, Superior Cologne, Imperial Cologne, Oriental Cologne, etc.

Cologne waters should be preserved in wellstoppered bottles, away from strong light and heat.

Musk	gt.	312
Vanilla, the meat or interior	gr.	7
Oil of rose	. m.	30
Oil of bergamotfl	.dr.	- 514
Essence of jasmine	dr.	5
Essence of violetfl.	dr.	5
Oil of neroli	. m.	40
Asafetida, powder	.gr	. 1
Alcoholfl		
Waterfl	.oz.	5

Mix the musk, vanilla, water and 11 fluid-In fumigating sick rooms the vinegar is ounces of alcohol, macerate for 30 days, add vaporized either by heating it in a spoon or the remaining ingredients, macerate another 30 days, agitating frequently, and filter.

PERFUMES.

II		
Oil of bergamot	fl.dr.	4
Oil of neroli	,fl.dr,	. 1/2
Oil of rosemary	drops	24
Tincture of musk	.fl.dr.	21/2
Tincture of vanilla	fl.dr.	1%
Essence of jasmine	.fl.dr.	4
Essence of violet		
Water		
Alcohol	.fl.oz.	43

Mix all but the water, then add latter gradually with agitation, set aside for some time, and filter.

#### III.

Oil of bergamotfl.dr,	6
Oil of rose geraniumfl.dr.	
Tincture of muskfl.dr,	6
Tincture of vanillafl.dr.	3
Essence of violetfl.dr.	
Essence of jockey clubfl.dr.	
Alcoholfl.oz,	
Waterfl.oz.	9

Mix all but the water, then add latter gradually with agitation, set aside for some time, and filter.

#### IV.

Oil of orangefl.oz.	2
Oil of lemonfl.dr.	4
Oil of bergamotfl.dr.	2
Oil of rose	0
Alcoholfl.oz. 2	
Water,fl.oz.	5

Mix all but the water, then add latter gradually with agitation, set aside for some time, and filter.

#### V.

Oil of bergamotfl.dr.	4
Oil of lemonfl.dr.	
Oil of orangefl.dr.	
Oil of lavenderfl.dr.	11/2
Oil of nerolifl.dr.	1/2
Oil of rosemarydrops	15
Oil of clovesdrops	8
Tincture of muskfl.dr.	1
Alcoholfl.oz.	64

This is known as Metcalf's Cologne.

#### VI.

Oil of bergamotfl.dr.	6
Oil of lemonfl.dr.	3
Oil of nerolidrops	60
Oil of origanumdrops	18
Oil of rosemarydrops	60
Orange flower water fl.oz.	
Alcoholfl.oz.	60

Mix all but the water, then add latter gradually with agitation, set aside for some time, and filter.

### VII.

11.	
Oil of lemonfl.dr.	4
Oil of bergamotfl.dr.	6
Oil of melissafl.dr.	· 1/2
	34
Oil of nerolifl.dr.	
Tincture of muskfl.dr.	3/2
Tincture of ambergrisfl.dr.	11/2
Alcoholfl.oz.	
Oil of rosem. 2	
Acetic etherm. 4	15

Mix the first eight ingredients, distill over 64 fluidounces, and to the distillate add the oil of rose and acetic ether.

#### VIII. Oil of bergamot .....fl.oz. Oil of lemon .....fl.oz. Oil of rosemary ..... fl.dr. 2 Oil of neroli.....fl.dr. 2 Oil of citronella. ..... drops 40 Alcohol .....fl.oz. 64 IX. Oil of bergamot .....m. 50 Oil of lemon .....m. 50 Oil of neroli.....m. 50 Oil of orange....m. 50 Oil of rosemary .....m. 50 Cardamom, powder.....gr. 240 Alcohol .....fl.oz. 64 Mix, set aside for some time, and filter X. Oil of lemon .....fl.dr. 2 Oil of neroli.....fl.dr. 2 Oil of orange.....fl.dr. 2 Alcobol ..... fl. oz. 66 1/2 XI. Oil of bergamot .....fl.dr. 41/2 Oil of lemon .....fl.dr. Oil of rosemary.....m. 25 Tincture of musk .....fl.dr. 3 Tincture orris.....fl.oz. 3 Orange flower water ..... fl.oz. 13 Alcohol .....fl.oz. 48

Mix all but water, then add the latter gradually with agitation, set aside for some time, and filter.

#### XII.

Oil of bergamot fl.dr. 6
Oil of lemonfl.dr. 3
Oil of lavenderfl.dr. 1
Oil of orangefl.dr. 1
Oil of rosefl.dr. 1
Tincture of muskfl.dr. 2
Alcohol

Oil of lemon       fl.dr.         Oil of rose       drops         Oil of neroli       drops         Stronger tincture of orris       fl.dr.         Tincture of tonka       fl.dr.         Tincture of musk       fl.dr.         Alcohol       fl.or.	80 30 6 11 4
XIV.	
Oil of bergamotfl.dr.	4
Oil of lemon grassfl.dr.	
Oil of lavenderfl.dr.	- 1/
Oil of citronellam.	$15^{\prime 2}$
Oil of nerolidrops	
Oil of bitter almondsdrops	
Oil of cassiadrops	
Oil of clovesdrops	
Oil of wintergreendrops	
Waterfl.oz.	
Alcoholfl.oz.	
Mix all but the water, add the latter g	grad

ually with agitation, set aside for some time, and filter.

### XV.

Oil of lemon	.fl.dr.	3
Oil of bergamot	.fl.dr.	6
Oil of lavender		
Oil of rose	.fl.dr.	1
Oil of neroli	m.	40
Tincture of musk	m.	50
Orange flower water	.fl.oz.	7
Alcohol		
Mix all but the water add the	latter	ared

Mix all but the water, add the latter gradually, set aside for some time, and filter.

### XVI.

Oil of jasminefl.oz.	1
Oil of bergamotfl.dr.	4
Oil of lemonfl.dr.	1
Oil of lavenderfl.dr.	1
Oil of nerolifl.dr.	1
Oil of cinnamondrops	5
Oil of clovesdrops	2
Oil of rosedrops	5
Tincture of muskfl.dr.	
Tincture of vanillafl.dr.	615
Stronger tincture of orris fl.dr.	_4´_
Alcoholfl.oz.	
Waterfl.oz.	

Mix all but the water, add the latter gradually with agitation, set aside for some time, and filter.

#### XVII.

Oil of neroli	.fl.dr.	2
Oil of rose geranium	.fl.dr.	1
Tincture of musk	.fl.oz.	2
Stronger tincture of orris	. fl. oz.	4
Tincture of civet	.fl.dr.	2
Alcohol	.fl.oz.	56
Mix and filter.		

### Toilet Waters.

Toilet waters are similar in composition the cologne waters. They are usual named after the principal ingredient, vilavender water, because oil of lavender is t principal; violet water, because containin essence of violet, etc. Florida water another toilet water, the principal ingredien being oils of lavender and bergamot or laven der, bergamot and lemon.

### Bretfeld Cosmetic or Toilet Water.

(Eau de Bretfeld.)

Oil of bergamotfl.o.	z. 1
Oil of lemonfl.d	r. 2
Oil of clovesn	1. <b>5</b> 0
Oil of lavendern	ı. 50
Oil of nerolin	ı. 30
Oil of rosedrop	os 10
Vanilling	r. 1
Tincture of muskfl.d	r. 1/2
Alcoholfl.o	z. 50
Waterfl.o	z. 5

Mix all ingredients except the water, agitate well, add the water, shake again, set aside for 8 days, and filter.—D.

### Florida Water.

Oil of lavender flowersfl.oz. Oil of bergamotfl.dr. Oil of clovesfl.dr. Oil of rose geraniumm. Oil of spearmintdrops Oil of spearmintdrops Benzoic acidgr. Waterfl.oz.	120
Waterfl.oz. Alcoholfl.oz.	

Mix the oils, acid and storax with the alcohol, shake thoroughly, add the water, and filter.

### II

I.

***	
Oil of lavenderfl.dr.	- 4
Oil of bergamotfl.dr.	- 4
Oil of lemonfl.dr.	4
Oil of nerolifl.dr.	3
Oil of melissafl.dr.	1
Oil of rosedrops	20
Tincture of curcuma	2
Alcoholfl.oz.	64
Mix and filter.	
TTT.	
Oil of lavender flowers fl.oz.	1

Oil of lemon	 	.fl.dr.	4
Oil of orange			
Oil of cloves			
Alcohol			

Mix and filter.

## PERFUMES. 11

### IV.

-	
Oil of lemonfl.dr.	4
Oil of bergamotfl.dr.	3
Oil of nerolifl.dr.	2
Oil of lavender flowersfl.dr.	1
Oil of white thymem.	50
Oil of mace m.	50
Oil of cassiam.	50
Oil of rosemarydrops	12
Oil of spearmintdrops	2
Peru balsamgr.	160
Essence of violetfl.oz.	10
Alcohol	50

Mix, set aside for 8 days, agitating occasionally, and filter.

### V.

Oil of lavender flowers	fl.dr.	2
Oil of bergamot	fl.dr.	1
Oil of cloves	m.	40
Oil of rosemary flowers	m.	40
Oil of cinnamon	drops	20
Oil of neroli	drops	6
Tincture of musk	drops	8
Tincture of ambrette		
Alcohol, enough to make.	fl.oz.	64

A portion of the alcohol may be replaced by distilled water, using only enough of the latter to produce opalescence.

#### VI.

Oil of lavender flowers fl.oz. 1
Oil of bergamotfl.dr. 4
Oil of cloves fl.dr. 2
Oil of rosedrops 20
Oil of cinnamondrops 10
Benzoic acid
Alcoholfl.oz. 62

### Geranium Water.

Oil of rose geraniumfl.oz.	1
Stronger tincture of orris rootfl.oz.	1
Tincture of muskfl.dr.	1
Alcoholfl.oz.	
Rose waterfl.oz.	

Mix the oils and tinctures with the alcohol, add the water, and filter.

### Lavender Water.

#### I.

Oil of laver	ide	T,					 			f	l.dr.	6
Alcohol												
Rose water.												
Magnesium	Ca	rl	20	n	at	e				,ai	. oz.	1

Triturate the oil with the magnesium carbonate, add the alcohol, and then the water, and filter. It may be colored a light brown tint with caramel if desired.

11.	
Oil of lavenderfl.dr. 6	
	1/2
Oil of rose	
Tincture of tonkafl.oz. (	
Tincture of muskfl.dr.	1/2
Alcoholfl.oz. 59	1
111.	
Oil of bergamotfl.oz. 1	
Oil of lavender fl.dr. 2	3
Oil of clovesfl.dr. 1	
Oil of sandalwoodm. 40	
Oil of rosem. 40	)
Tincture of ambergrisfl.dr. 2	
Tincture of muskfl.oz. 1	
Alcoholfl.oz. 68	3
IV.	
Oil of lavenderfl.dr. 10	
	15
Oil of nerolidrops 4	1.4
Oil of rose geraniumdrops	
Oil of sandalwood,drops	
Tincture of muskdrops	
Alcoholfl.oz. 30	
Waterfl.oz. 30	
v.	
	1/2
Oil of bergamotfl.dr. 1	1/2
Oil of lemon fl.dr.	1%
- meeting of meaning the state of the state	5
Alcoholfl.oz. 54	
VI.	
Oil of lavenderfl.oz. 1	
Oil of nerolidrops 20	)
Tincture of ambergrisfl.oz. 1	
Tincture of musk fl.oz. 1	
Alcoholfl.oz. 61	L
Lilac Water.	
Essence of tuberosefl.oz.	1
Essence of orange flowersfl.oz.	
Oil of bitter almondsdrop	1
Tincture of civetfl.dr.	1
Alcoholfl.oz. 35	
Water	t

Add the essences, oil and tincture to the alcohol, add water gradually with agitation until the liquid becomes very slightly milky, and filter.

### Violet Water.

I.												
Es	sence	of	violet				.,	i,		• •	fl.oz.	7
Es	sence	of	rose		 . ,	.,					fl.oz.	2%
Es	sence	of	cassie	2.			• •		•		fl.oz.	21/2
Al	cohol			14							fl.oz.	56

Water may be added if a cheaper preparation is wanted. Tincture of orris may also

20

·····	
be a desirable addition. The preparation may also be tinted with chloropyhll.	incorporate the water previously slighters warmed, and filter.
II.	l v.
Essence of violet	Oil of bayfl.dr.
This may be diluted, modified or tinted	
•	This can be made clear and bright by filt = = =
like the preceding.	ing through magnesia and charcoal. It mak-
III. Violet water may also be prepared by	a cheap article for barbers' use.
diluting violet extract with alcohol, adding	VI.
some water, and filtering.	
Other toilet waters may be prepared hav-	Oil of bay
ing odors different from any of the above.	Acetic ether
Such preparations may be made as "White	Alcohol
Rose Water,'' " Heliotrope Water," etc.	Waterfl.oz. 32
	Mix the oils and ether with the alcoho
Bay Rum. (Spirit of Myrcia.)	add the water, and filter.
	VII.
Oil of bay	
Oil of pimento	Oil of bayfi.dr. 4 Oil of orangefi.dr. 1
Alcohol	Alcohol
Waterfl.oz. 25	Waterfl.oz. 40
Mix the oils and alcohol, add the water, set	Calcium phosphategr. 120
aside in a well-stoppered bottle for 8 days	Jamaica rum
and filterU. S. P.	Mix the oil and calcium phosphate, add
	the alcohol, and stir; then add the water and
II. Oil of bayfl.dr. 14	filter clear. Finally add enough rum to give
Oil of pimento	the desired color.
Acetic etherfl.dr. 21/2	VIII.
Stronger tincture of orrisfl.dr. 4	Oil of bayfl.dr. 2
New England rumfl.oz. 8	Alcohol
Alcoholfl.oz. 32 Water, enough to makefl.oz. 64	Waterfl.oz. 24
	Bay leavesgr. 120
Mix the oils and tincture with the alcohol,	Mix, macerate for 14 days, and filter.
add the rum, then the water, and filter.	Toilet or Aromatic Vinegars.
III.	
Oil of bayfl.dr. $1\frac{1}{2}$	Such a preparation may be known simply
Oil of pimentodrops 6	as toilet or aromatic vinegar, or as lavender,
Oil of lemon grass drops 6 Oil of orange drops 6	rosemary, eucalyptus, witch hazel, cosmetic.
Oil of clovesdrops 6	floral antiseptic. hygienic, preventive.
Oil of rose geraniumdrops 6	vinegar according to fancy or to the main
Acetic etherm. 25	constituent, or it may be known by the French
Alcohol	title " vinaigre de toilette."
Waterfl.oz. 32	These preparations consist of aromatic oils
Mix the oils and ether with the alcohol,	and other odorous substances combined with
add the water, and filter.	alcohol and acetic acid.
IV.	I.
Oil of bayfl.dr. 1	Lavender flowers av.oz. 7
Oil of pimentodrops 8 Oil of rose geraniumdrops 4	Alcohol
New England rumfl.oz. 8	Diluted acetic acidfl.oz. 56
Alcohol	Mix, macerate for 8 days, agitating fre-
Water, enough to makefl.oz. 64	quently, express in a straining cloth, heat the
Mix the oils and alcohol, add the rum, then	

.`

days in a cool place, then filter, place the filtrate in small bottles, and preserve in the dark.—D.

1.	
Oil of lavenderdrops	4
Oil of rosemarydrops	4
Oil of juniperdrops	4
Oil of peppermintdrops	4
Oil of cassiadrops	4
Oil of lemondrops	8
Oil of clovesdrops	8
Alcoholfl.oz.	234
	234
Distilled water, enough to make.fl.oz.	16

Dissolve the oils in the alcohol, add the acid, and lastly the water. Warm the mixture for several hours to a temperature not exceeding 76 degs. C., taking care there is no loss by evaporation; set aside for a few days and filter.—N. F.

III. The aromatic vinegar of the German pharmacopœia differs from the preceding only in containing 50 per cent more of each of the oils.

#### IV.

Oil of lavenderdrops 1	5
Oil of rosemarydrops 1	
Oil of nerolidrops 1	
Oil of lemonfl.dr.	2
Oil of bergamotfl.dr.	2
Oil of orangefl.dr.	24
Tincture of musk drops 1	15
Tincture of benzoin, U. S. P fl.oz.	1
Tincture of tolufl.oz.	1
Glacial acetic acidfl.oz. 1	16
Alcoholfl.oz. 4	15

Mix the oils and tinctures with the alcohol, add the acid, let the mixture stand for several days and filter.

### 

#### VI.

Tincture of benzoin, U. S. P fl.dr. 6
Tincture of tolufl.dr. 6
Oil of orangefl.dr. 2
Oil of lemon fl.dr. 2
Oil of bergamotdrops 50
Oil of nerolidrops 12
Oil of rosemarydrops 8
Acetic acidfl.oz. 1
Diluted alcohol, enough to make.fl.oz. 64
ut o

Glacial acetic acid.....fl.dr. 10 Cologne water, enough to make.fl.oz. 64 Mix, let stand for several days and filter. D.

VIII.

Oil of rosedrops 16
Oil of bergamotdrops 16
Oil of ylang ylangdrops 2
Oil of orris, liquiddrops 4
Oil of cassiadrops 2
Tincture of muskdrops 20
Tincture of ambergrisfl.dr. 14
Coumaringr. 1
Heliotropingr. 1/2
Essence of jasminefl.dr. 11
Glacial acetic acidfl.dr. 12
Alcoholfl.oz. 56
Distilled waterfl.oz. 18

Mix, macerate for at least 8 days, and filter.-D.

#### IX.

Rose petalsav.oz.	11
Essence of rosefl.oz.	14
Diluted acetic acidfl.oz.	54

Mix, macerate for 1 day, strain, set the liquid aside for several days, and filter.

Essence of cassie fl.dr. 4	
Essence of violet fl.dr. 4	
Essence of rosefl.dr. 4	
Stronger tincture of orrisfl.oz. 4	
Diluted acetic acidfl.oz. 16	
Distilled extract of witch hazel,	
enough to make fl.oz. 32	

Mix and filter.

### Smelling Salts.

Under the name of "smelling salts," "inexhaustible salts," "Preston salts," and "pungent" there have been prepared moist granular preparations which are aromatized and give off a fragrant odor in connection with the pungent odor of ammonia. They consist of either coarsely powdered ammonium carbonate with or without the further addition of ammonia water, or of a coarsely powdered mixture, which slowly evolves the odor of ammonia, a mixture of ammonium chloride and potassium carbonate or lime, the whole being aromatized by the addition of volatile oils, or pomade essences, or handkerchief extracts.

These preparations are usually dispensed in small ornamental glass containers which can be securely closed when not in use.

These are used by inhalation in the fainting spells or headaches of ladies.

These preparations may be made stronger in ammonia strength by adding a fresh portion of ammonia water. THE STANDARD FORMULARY.

I. Ammonium carbonate av.oz.	1+
Caustic potassaav.oz.	+
Orris rootav.oz.	1
Ammonium chlcridegr.	120
Lemon peelgr.	120
Rosemarygr.	120
Lavender flowersgr.	120
Cloves	60
Cinnamongr.	60
Oil of lemonm.	30
Tincture of musk or civet fl.dr.	1.
Concentrated water of ammonia.fl.dr.	1

Mix the first nine ingredients previously reduced to a granular condition, then add the other ingredients, mix quickly, and bottle.

II.

Fill the bottle with small crystals of potassium sulphate and add enough of the following to moisten:

Water of ammoniafl.oz.	4
Oil of lemondrops 1	5
Oil of bergamotdrops	
Oil of lavender flowersdrops	4

Or mix equal parts of ammonium chloride and potassium carbonate, and perfume, or fill the vial with coarsely powdered ammonium carbonate, the fragments of which have been brought to a uniform size by sifting out both the fine and coarse pieces, and perfume as above.

III.

Ammonium chloride, granular.av.oz.	1
Quicklime, granular av.oz.	1
Mix and moisten with the following:	
Stronger water of ammoniafl.oz.	2
Oil of bergamot drops	12
Oil of lavender flowersdrops	6
Oil of rosedrops	5
Oil of cassiadrops	5
Oil of clovesdrops	5
	LT.

IV.

Ammonium chlorideav.oz.	11/2
Potassium carbonate	134
Ammonium carbonategr.	
Camphorgr.	60
Oil of clovesdrops	10
Oil of bergamotdrops	10

Reduce the ammonium carbonate to coarse powder, add the ammonium chloride and potassium carbonate in a granular condition and the camphor in powder form, and then the two oils.

Menthol smelling salts may be prepared by substituting 60 grains of menthol for the camphor and oils in the above.

V.

Oil of	clovesdrops	6
Oil of	lavender flowers drops 1	2
Oil of	bergamotdrops 3	0
Strong	ger water of ammoniafl.oz.	2

Fill the smelling bottles with coarsely powdered ammonium carbonate, and add to the salt as much of the aromatic solution as it will absorb.

VI.

Oil of lemondrops	12
Oil of lavenderdrops	
Oil of clovesdrop	
Stronger water of ammoniafl.oz.	3

Fill the smelling bottles with crystallized potassium sulphate and pour into each bottle as much of the aromatic ammonia as the salt can retain without spilling This makes a much prettier looking smelling salt than ammonium carbonate, and as it does not cake together like it, the bottle need not be emptied when the ammonia has evaporated. All that is necessary is to fill it up again with the aromatic ammonia.

VII. Moisten coarsely powdered ammonium carbonate contained in a suitable bottle with the following mixture:

Oil of lavender	flo	w	er	s					.fl.dr.	2
Spirit of ammon	ia.	+		-			. ,		.fl.dr.	1
Absolute alcoho	l	•	• •		•	•	.,	 •	.fl.dr.	17

This preparation should be dispensed as lavender salts.-D.

VIII. Violet salts may be prepared in a manner similar to the preceding, substituting for the lavender oil and alcohol a concentrated tincture of orris root, in proper quantity, spirit of orris, or, if preferred, violet extract. It may be tinted green by the addition of green aniline or tincture of grass.

Other odors like heliotrope, etc., may be produced by substituting the corresponding spirit, oil, extract or other substance for the lavender or violet.

IX. The following pungent is quite different from any of the preceding and is given here for the sake of variety:

	6
Glacial acetic acidfl.dr.	
Acetic etherfl.dr.	
Oil of rosedrops	20
Oil of bergamotdrops	
Oil of nerolidrops	
Oil of ylang ylangdrops	2
Oil of orris, liquid drops	2
Coumaringr.	1

Mix all but the sodium acetate and add to I. the latter contained in a suitable vial.

This is to be used like the preceding pungents. If desired of a red tint, it may be colored by the addition of a trifling amount of fuchsin to the solution.—D.

### SECTION II-SKIN PREPARA-TIONS.

Preparations intended mainly or entirely for the skin, viz.: Ointments and Creams, Skin Food, Toilet Milks, Toilet Lotions, Toilet Jellies, Camphor Ice, Toilet Lanolin, Almond Paste, Almond Meal, Toilet Powders, Liquid Cosmetics, Face Bleach, Remedies for Blackheads, Freckles, Pimples, Tan, Sunburn, etc.; Rouge, Grease Paints, Depilatories, Liquid Soaps, Shaving Creams and Powders, and Manicure Cosmetics.

#### Cold Creams.

Preparations known as "Cold Creams" are mixtures of solid fats, like wax, spermaceti, petrolatum, lanolin, etc.; oils, like almond oil, water, rose water, glycerin, distilled extract of witch hazel, or other similar fluid, and some flavoring substances. In preparing them the solid fats must be melted, the oil (castor oil is preferable to other oils) then mixed with the fluid mentioned, the whole stirred vigorously and constantly in a large mortar until well mixed and quite solid, finally adding the flavoring substances. The mixing may also be by means of stirring with a large spatula or an egg beater.

Such a preparation receives a name depending on its constitution or flavor. It may be called simply "cold cream; if favored with bitter almond oil, "almond cold cream"; if it contain cucumber juice, "cucumber cream, pomade, or ointment"; if witch hazel extract, "witch hazel cold cream"; if glycerin, "glycerin cold cream"; if camphor, "camphor cold cream"; lanolin, "lanolin cold cream"; salicylic acid, "salicylic or salicylated cold cream"; petrolatum, "petrolatum (or vaselin) cold cream"; violet extract or orris, "violet cold cream"; if orange flower water and Peru balsam, "sultana cold cream"; boric acid and glycerin, "boroglycerin cold cream," etc.

Spermacetiav.oz. 2	
White waxav.oz. 2	3
Sweet almond oil fl.oz. 10	
Stronger rose waterfl.oz. 8	
Borax, powdergr. 40	E.

Melt the wax and spermaceti at a moderate heat, add the oil, place the mixture in a warmed mortar, carefully add the rose water in which the borax has previously been dissolved, and stir rapidly and continuously until the mixture becomes uniformly soft and creamy.—U. S. P.

1.	
Sweet almond oilfl.oz.	61
Castor oil (odorless)fl.oz.	11
Lard, benzoinated av.oz.	22
White waxav.oz.	2
Rose water (in winter less, in _	
summer more, than quantity	
named)fl.oz.	3
Orange flower waterfl.oz.	2
	4
Essence of jasmine	11
Essence of cassie	1
Borax, powder,	40
Glycerinfl.oz.	1

Melt the oil of sweet almond, wax and lard together and stir in the castor oil, make a solution of the borax in the glycerin and rose and orange flower waters, add this solution, a little at a time, to the melted fat, stirring constantly to insure thorough incorporation; finally, add the oil of rose dissolved in the essences, and beat the ointment until cold.

Castor oilav.oz. 15	3
Spermacetiav.oz. 4	ł.
White waxav.oz. 1	
Oil of rosedrops 10	)
Oil of bitter almonddrops	3
Melt the wax and spermaceti. add	the

castor oil; when cooling beat to a cream, add the remaining oils, and mix well.

IV.		
White	waxav.o:	2. 1
Lard.	av.o	z. 4
Sweet	almond oilfl.o.	
Water	, warnifl.o.	
Borax,	powderg	r. 15
Zinc o	xideg	г. 120
	rosedroj	
Oil of	bergamotdroj	os 5
	rose geraniumdroj	
	olfl.d	

Melt the wax and lard "together, add the oil, then the warm water with which the

borax and zinc oxide have previously been solved, add the water in which the borax has mixed, stir the whole thoroughly in a mortar until well mixed and nearly cold, add the oils previously dissolved in the alcohol, and mix again.

V.

Spermacetiav.oz.	2
White waxav.oz.	11
Castor oilav.oz.	44
Cottonseed oil, bleached,fl.oz.	
Rose waterfl.oz.	434
Borax, powdergr.	
Oil of rose sufficient to flat	

Melt the spermaceti and wax, add the castor and cottonseed oils, then incorporate the water in which the borax has previously been dissolved, and finally add the oil of rose.

#### VI.

Spermacetiav.oz.	31
White waxav.oz.	
Castor oilav.oz.	3
Cottonseed oilfl.oz.	12
Rose waterav.oz.	
Oil of lavender flowers, drops	12
Prepare like the preceding.	

Almond Cold Cream. (Almond Cream.)

Spermacetiav.oz.	2
White waxav.oz.	2
Sweet almond oil fl.oz.	14
Water, distilledfl.oz.	7
Borax, powdergr.	60
Coumaringr.	1
Oil of bergamot drops	24
Oil of rosedrops	
Oil of bitter almonddrops	8
Tincture of ambergrisdrops	5
Prepare like the precedingD.	

Camphor Cold Cream. (Camphorated

Cold Cream.)

Spermacetiav.oz.	2
White waxav.oz.	2
Camphorav.oz.	
Sweet almond oilfl.oz.	13
Water, distilledfl.oz.	61
Borax, powdergr.	60
Coumaringr.	+
Oil of rosedrops	18
Oil of rose geraniumdrops	4
Oil of ylang ylang drops	4
Oil of bitter almond drops	2
Oil of orris, liquiddrop	1
Tincture of muskdrops	
Tincture of civet drops	10
	1.0

Melt the wax and spermaceti, add the water. sweet almond oil, add the camphor, first

previously been dissolved, stir until well mixed and nearly cold, add the other ingredients and again mix well .- D.

#### Boroglycerin Cold Cream.

Boric acid, powdergr. 90
Glycerinfl.oz. 2
Water, distilled fl.oz. 21
Lanolin, anhydrousav.oz. 1
Parafin whiteav.oz. 14
Oil of rosedrops 6
Oil of bergamotdrops 6

Heat together the first three ingredients until solution is effected (one hour). Melt together the lanolin and petrolatum, incorporate the boroglycerin solution by rapid and constant stirring, then add the oils, and mix again .- D. modified.

#### Glycerin Cold Cream.

Spermacetiav.oz.	3
White waxav.oz.	1
Sweet almond oilfl.oz.	8
Borax, powdergr.	
Glycerinfl.oz.	3
Orange flower waterfl.oz.	1
Oil of nerolidrops	5
Oil of rosedrops	3

Melt the wax, spermaceti, and almond oil together; dissolve the borax in the orange flower water and glycerin previously mixed; pour the solution, a little at a time, into the melted mixture, stirring the preparation without ceasing until all the solution has been fully incorporated, and a homogeneous product results; finally add the essential oils.

Lanolin Cold Cream. (Lanolin Cream.) I,

Sweet almond oilav.oz.	84
Lanolin, anhydrousav.oz.	334
White wax av.oz.	14
Spermacetiav.oz.	
Borax, powdergr.	40
Rose water,fl.oz.	6

Melt together the first four ingredients. then incorporate the solution of borax in the rose water.

An equally good preparation is obtained by melting together 3 av. ounces of anhydrous lanolin and 6 av. ounces of benzoiaated lard, and adding 9 fluidounces of rose

Instead of anhydrous lanolin, ordinary broken into pieces, stir until the latter is dis- lanolin may be used, the amount of water

being reduced if necessary. Any desired perfume or combination may be added to these mixtures.

White waxgr. 48	30
Spermacetigr. 48	30
Sweet almond oilfl.oz.	7
Lanolinav.oz.	34
Borax, powdergr. 4	10
Waterfl.oz.	5
Perfume to su	

Melt the wax and spermaceti, add the lanolin and oil, and when melted add the water containing the borax in solution; stir until cool and add suitable perfume.

#### III.

White petrolatumav.oz.	14
Paraffin waxav.oz.	
Lanolinav.oz.	
Waterfl.oz.	
Alcoholfl.dr.	
Vanillingr.	4
Oil of rosedrops	5

Melt the petrolatum and paraffin on a water bath, pour into a warm mortar, add the lanolin and with constant stirring incorporate the water. When of the consistence of a thick cream add the vanillin and oil dissolved in the alcohol.

#### IV.

Petrolatumav.oz.	10
Lanolinav.oz.	5
Soap, powdered, whitegr.	140
Waterfl.oz.	5
Oil of rose,drops	6
Oil of nerolidrops	6
Oil of bergamot drops	6

Mix the petrolatum, lanolin, and soap, incorporate the water with this mixture and then add the oils .- D.

### Petrolatum Cold Cream.

#### I.

White wax	.av.oz.	11
Spermaceti	av. oz.	11
Petrolatum		4
Sweet almond oil	fl.oz.	9
Borax, powder	gr.	90
Water		
Coumarin		+
Oil of rhodium		10
Oil of bergamot	drops	10
Oil of rose geranium	drops	3
Oil of rosewood	drops	2
Oil of orris, liquid	drop	1
Tincture of civet	. drops	8

almond oil and petrolatum, and when melted with glycerin.-D.

incorporate the water in which the borax has previously been dissolved; finally add the coumarin, oils, and tincture and mix well. -D.

White petrolatum is preferred in the above, as in all cold cream preparations.

II.	
Petrolatumav.oz. 12	3
Soap, powdered, whitegr. 108	5
Glycerinfl.dr. 0	
Waterfl.oz. 8	\$
Oil of rosedrops 5	5
Oil of nerolidrops 5	5
Oil of begamotdrops 5	5

Mix the petrolatum and soap, then gradually incorporate the glycerin and water previously mixed, and finally add the oils .- D.

III.

Petrolatum, white av.oz.	6
Spermacetiav.oz.	
White waxav.oz.	
Rose waterfl.oz.	
Borax, powdergr.	40
Oil of rosedrops	6

Melt the spermaceti and wax, add the petrolatum, then incorporate the water in which the borax has previously been dissolved, and finally add the oil of rose.

IV.
White petrolatumav.oz. 10
White waxav.oz. 1
Cottonseed oil, bleachedfl.oz. 1
Rose waterfl.oz. 1
Prepare like the preceding, adding an
desired perfume.

V. Some of the lanolin cold creams contain petrolatum and may be dispensed as a petrolatum cold cream.

Salicylated Cold Cream. (Salicylic Cold

	ea		

White waxav.oz. 2
Spermacetiav.oz. 2
Sweet almond oilfl.oz. 12
Distilled waterfl.oz. 2
Glycerinfl.oz. 2
Salicylic acidgr. 90
Coumaringr. 1
Oil of rosedrops 5
Oil of nerolidrops 5
Oil of bergamotdrops 5
Oil of wintergreendrops 3
Oil of ylang ylangdrop 1
Tincture of muskdrops 2
Prepare in the usual manner for making

cold cream, but add the salicylic acid last, Melt the wax and spermaceti, add the previously triturating it to a smooth paste

### Rose Cold Cream.

Rose cold cream may be prepared from any of the "cold creams" by tinting a rose color by means of solution of carmine.

### Sultana Cold Cream.

Spermacetiav.oz.	+
White waxav.oz.	+
Sweet almond oilfl.oz.	8
Cacao butterav.oz.	8
Orange flower waterfl.oz.	2
Peru balsam av.oz.	

Melt the wax and spermaceti, add the cacao butter, melt again, add the oil, and then incorporate the orange flower water and balsam.

### Witch Hazel Cold Cream. (Witch Hazel Cream.)

White petrolatumav.oz.	9
White waxav.oz. 1	11
Spermacetiav.oz.	
Distilled extract of witch hazel. fl.oz.	3

Melt the first three ingredients together; allow to cool to some extent, then add the witch hazel extract and stir. When nearly cold add any desired perfume and stir vigorously.

#### Perfumes for Cold Cream.

I. Coumarin	gr. 1
Oil of rose	drops 30
Oil of neroli	drops 10
Oil of rose geranium	drops 7
Oil of ylang ylang	drops 3
Oil of orris	drop 1
Tincture of ambergris	drops 10
II.	
Coumarin	gr. 2
Oil of rose	drops 20
Oil of neroli	drops 20
Oil of bergamot	drops 20
Oil of wintergreen	drops 12
Oil of ylang ylang	drops 2
Tincture of musk	drops 10
III.	
Coumarin	gr. 1
Oil of bergamot	drops 40
Oil of rose	drops 10
Oil of bitter almond	drops 12
Tincture of ambergris	drops 7
These mixtures may be emplo	
fuming cold creamD.	

#### Cucumber Cream or Ointment.

I.

White waxav.oz.	3
Spermacetiav.oz.	3
Benzoinated lard av. oz.	8
Cucumbers	3
Borax, powdergr.	150

Melt the wax and spermaceti, and add the lard. Peel the cucumbers, chop into small pieces, mix with the foregoing and add 90 grains of borax. After this mixture has stood for 13 hours, melt on a water bath, and strain through cheese cloth. Place the mixture on ice; when the fat has solidified, drain off the fluid, add the remainder of the borax to the fat, and thoroughly incorporate the fat with the borax and the residual fluid it contains. This may be colored green with chlorophyll if desired.

II.

Melt together 11 av. ounces of lard and 7 av. ounces of veal suet, the suet first having been rendered, in a water bath. To the fat, strained into a jar of the capacity of one gallon, when it begins to thicken add onethird of the juice obtained by grating and expressing 3 av. pounds of green cucumbers and beat the mixture with a spatula until all of the odor of the cucumber has been absorbed by the fat, which will require several hours. The watery fluid should then be rejected and the remaining juice added in two consecutive portions, incorporated in the previous manner and the watery liquid again rejected. The fat should then be heated in a closed vessel on a water bath for one hour. the albuminous coagulum should be skimmed off, the watery matter should be removed on cooling, the ointment should again be melted and then strained. Before use, this fat should be triturated with a little rose water until it is of a creamy character.

III.

Lard
Lanolin, anhydrousav.oz. 5
Tincture of benzoinfl.oz. 1
Cucumber juice, freshly ex-
pressed and strained through
absorbent cottonfl.oz. 10
Mix the lard and lanolin, incorporate th
11 1 1 1 1 TT

tincture, and lastly the juice.-H. modified. IV.

Lardav.oz.	10
Beef tallowav.oz.	6
Benzoic acidgr.	15
Rose waterfl.dr.	1
Cucumber juice, freshly ex-	
pressed and strained through	
absorbent cotton fl.oz.	10
Malt the land and tallow add the	anid

previously triturated to fine powder, add the cucumber juice, and incorporate thoroughly, as described under "cold cream." Perfume may be added if desired..

V.

Cucumbers, cut fine or grated av.oz.	30
Alcoholfl.dr.	10
Benzoinated lard av. oz.	10
Beef tallowav.oz.	5

Mix the cucumbers and alcohol, macerate for one hour, and then distill off 9 fluiddrams. This distillate may be known as spirit of cucumber.

The tallow above may be replaced by 3 av. ounces of spermaceti.

#### Skin Food.

Preparations sailing under this name are usually cold creams or other bland ointments suitably perfumed and sometimes tinted. Fat forms the basis and gives them their hygienic effect as it imparts fullness and softness to the skin. When applied, these preparations are to be rubbed into the skin abundantly, and the friction asssits the absorbed fat in developing the muscles. Any of the cold creams may be dispensed under the name of "skin food" or the following may be used:

Petrolatum, white, av.oz.	14
Paraffin waxav.oz.	
Lanolinav.oz.	
Waterfl.oz.	
Oil of rosedrops	
Vanillingr.	
Alcoholfl.dr.	2

Melt the wax, add the petrolatum and lanolin, pour into a warm mortar, and, with constant stirring, incorporate the water. When nearly cold, add the oil and vanillin dissolved in the alcohol.

These preparations may be tinted red by means of alkanet root.

#### Face or Toilet Creams.

These preparations are mucilaginous in character, consisting of tragacanth or quince seed mucilage combined with water, alcohol, glycerin, borax, or boric acid, and sometimes other ingredients. Their purpose is for application to face, neck and hands to assist in

healing cracks and all roughness of the skin. They are readily absorbed and dry quickly. The formulas do not specify coloring matter, but the preparations may be tinted any desired color; red, for example, by means of solution of carmine; violet by means of violet aniline, etc.

Such preparations may be dispensed under the names "face cream," "toilet cream," "skin cream," "cosmetic cream," "glycerin cream," "fragrant cream," or similar titles. If containing menthol, the title "menthol cream" may be used; if containing camphor, "camphor cream"; if containing calendula, "calendula cream," etc. Other titles which are used are "cream of roses, "cream of lilacs," "calendula and glycerin lotion," etc. L

Tragacanth, whole	0
Waterfl.oz. 1	3
Glycerinfl.oz.	3
Alcohol	
Boric acidgr. 8	)

Macerate the gum in the water until perfectly soft, strain by expression through muslin, dissolve the acid in the glycerin by the aid of heat, add to the mucilage, then incorporate the alcohol, perfume to suit, and add if necessary enough water to make 16 fluidounces.

Gum tragacanth, whole at	.oz. 3/4
Gum tragacanth, wholeav Glycerinf	.07. 8
Salicylic acid	
Alcoholf	
Water	

Soften the gum in about 32 fluidounces of water, strain forcibly through muslin, add the remainder of the water and the other ingredients, first dissolving the acid in the alcohol. Shake well and perfume to suit with some "extract."

III.

Gum tragacanth, wholegr.	120
Waterfl.oz.	14
Glycerinfl.oz.	
Tincture of benzoinfl.dr.	
Borax, powdergr.	120
White rose extractfl.dr.	4

Macerate the tragacanth in the water until perfectly soft, and dissolve the borax in the glycerin. Mix the two solutions, add the tincture and strain with expression through muslin.

#### IV.

Tragacanth, powdergr.	240
Glycerinfl.oz.	
Borax, powdergr.	
Water, enough to make fl.oz.	16

Dissolve the tragacanth and borax in the water and strain through cheese cloth, add the glycerin, and perfume to suit.

V.

Quince seed av.oz.	23%
Boric acid	
Carbolic acid fl.dr.	1
Tincture of benzoin fl.dr. 15	3
Glycerin	8
Lilac extractfl.dr.	2
Water, enough to make fl.oz. 64	4

Pour 32 fluidounces of boiling water upon the seed, add the two acids, macerate for several hours, stirring occasionally, decant the liquid, upon the residue pour 16 fluidounces of boiling water, macerate again as before, decant as before, mix and strain the two liquids, add the glycerin, incorporate the tincture gradually with vigorous agitation, add the perfume, and finally the remainder of the water.

### Calendula Toilet Cream.

Tragacanth, powder	gr. 120
Borax	gr. 120
Ammonium chloride	gr. 240
Tincture of calendula	.fl.oz. 2
Glycerin	.fl.oz. 4
Water	

Triturate the gum with glycerin to a smooth paste; dissolve the borax and ammonium chloride in a portion of the water, filter this solution, mix the two liquids, add the remainder of the water, and incorporate the tincture (and some "extract" to perfume) with this mixture by agitation.

#### Glycerin Toilet Cream.

Quince seedgr.	90
Boric acidgr.	
Glycerinfl.oz.	4
Alcoholfl.oz.	6
Carbolic acidfl.dr.	
Cologne waterfl.dr.	
Oil of lavender flowersdrops	40
Glycerite of starchav.oz.	4
Water enough to make fl.oz.	32
The 1 - 4 - 1 - 1 - 11 - 10 A	

Dissolve the boric acid in 16 fluidounces of water, macerate the quince seed in the solution for three hours, press through a straining cloth, add the glycerin, carbolic acid and glycerite, and mix well. Mix the

alcohol, cologne water and lavender oil, add the mixture to the mucilage and mix the whole thoroughly.

#### Camphor Toilet Cream.

Quince seedgr. 60	
Water, hot	Ł
Borax, powdergr. 60	)
Glycerinfl.oz. 2	1
Spirit of camphorfl.oz. 1	1
Oil of bitter almond drops 10	Y.

Macerate the quince seed for several hours with the water, strain, add the glycerin and in the mixture dissolve the borax. Dissolve the oil in the spirit of camphor and gradually add to it the mucilage and mix thoroughly.

#### Menthol Toilet Cream.

Tragacanth, powdergr.	80
Glycerinfl.dr.	4
Mentholgr.	50
Alcoholfl.dr.	5
Water, enough to make fl.oz.	16
Solution of carminesufficie	ent

Triturate the tragacanth with the glycerin, dissolve the menthol in the alcohol, mix the gummy and alcoholic liquids by trituration, color a light pink by the addition of the carmine solution, and then gradually and thoroughly incorporate the water.

#### Creams Containing Almond.

Some toilet creams differ from the preceding kind in that they contain almond in some form, either an emulsion of sweet or bitter almonds, sweet almond oil in emulsion or saponaceous form, or a flavor of bitter almond. These receive such names as "almond cream," "honey and almond cream" (usually these contain no honey), and "amandine"; also "cream of roses," if flavored strongly with rose or if tinted a rose color (for example, Nos. III, V and VI).

These preparations are used for cleaning, softening and whitening the skin.

I.

Ointment of rose waterav.oz. 1
Oil of sweet almondsfl.oz. 1
Glycerinfl.oz. 1
Boric acidgr. 100
Solution of sodafl.oz. 24
Mucilage of quince seedfl.oz. 4
Water, enough to make fl.oz. 40
Oil of rose,
Oil of bitter almonds. of each,
Heat the ointment, oil and solution of soda

together, stirring constantly until an emulsion emulsion is run into the mortar, the alcohol, or saponaceous mixture is formed. warm together the glycerin, acid, mucilage and about 30 fluidounces of water; mix this with the emulsion, stir until cold and add the remainder of the water. Lastly, add the volatile oils.

The rose water ointment used should be the "cold cream " of the U. S. P.

## II.

Sweet almonds, blanchedav.oz. 5	
Castile soap, white	
White wax	
Spermaceti	
Oil of bitter almonds, drops 10	)
Oil of bergamot drops 20	
Alcoholfl.oz. 6	
Watersufficient	

Make an emulsion of the almonds with water so as to obtain 16 fluidounces of product, straining through cotton, which has previously been washed to remove stiffening. Dissolve the soap with the aid of heat in the necessary amount of water to form a liquid, add the wax and spermaceti, continue the heat until the latter is melted, transfer to a mortar, and incorporate the almond emulsion slowly with constant stirring until all has been added and a smooth cream has been formed. Finally add the two volatile oils.

#### III.

Sweet almonds, blanched av.oz.	8
Rose waterfl.oz.	
Alcoholfl.oz.	4
Oil of rosefl.dr.	
White waxgr.	
Spermacetigr.	240
White castile soapgr.	240

Shave the soap, place it in a vessel, add several ounces of rose water and heat on a water bath until dissolved. When the soap is dissolved, add the wax and spermaceti, continue the heat and stir occasionally. While this is going on, blanch the almonds, carefully excluding every damaged particle. Then beat them up in a scrupulously clean mortar, and allow the rose water to trickle into the mass by degrees. When the emulsion of almonds is finished, strain it without pressure, through clean-washed muslin. The previously prepared saponaceous mixture is now put in the mortar, and the emulsion carefully and gradually blended with it. As the last of the tion to impart a rose tint,

Then in which the oil of rose has been dissolved, is made to follow it and mixed very gradually with the other ingredients. A too sudden addition of the alcohol frequently coagulates the milk and causes it to be curdled. As it is, the temperature of the mixture rises, and every means must be taken to keep it down. Finally strain the product.

> The almond residue may be washed with a few ounces of fresh rose water, to prevent any loss in bulk in the whole quantity. The newly formed milk should be allowed to stand at rest for 24 hours, when the clear portion may be drawn off the sediment, and is ready for bottling.

#### IV.

Spermaceti	gr.	240
White wax	gr.	120
Castile soap, white	gr.	120
Bitter almonds, blanched	av.oz.	5
Alcohol		
Oil of bitter almonds	drops	
Oil of bergamot	.fl.dr.	1
Water, distilled	.fl.oz.	16

Triturate the almonds with the water to a smooth paste, melt the spermaceti and wax by means of a water bath, mix the two intimately, slowly add the alcohol in which the oils have previously been dissolved, and finally strain through cheese cloth.

V. The bitter almonds in the preceding may be replaced by sweet almonds and oil of rose substituted for the oils of bitter almond and bergamot.

#### VI.

Honey	.av.oz. 2
Castile soap, white powder	
Oil of sweet almond	. fl.oz. 26
Oil of bitter almonds	fl.dr. 1
Oil of bergamot	fl.dr. 1/2
Oil of cloves	.drops 15
Peru balsam	fl.dr. 1
Liquor potassa,	
Calution of compiles of each	and along the

Solution of carmine...of each, sufficient

Mix the honey with the soap in a mortar, and add enough liquor potassa (about 1 fluidram) to produce a nice cream. Mix the volatile oils and balsam with the sweet almond oil, mix this with the cream, and continue the trituration until thoroughly mixed. Finally add, if desired, enough carmine solu-

/ 11.
Bitter almondsav.oz. 3
Yolk of eggav.oz. 3
Honeyav.oz. 6
Sweet almond oil
Oil of bergamotdrops 45
Oil of lemondrops 35
Oil of clovesdrops 35

Bruise the almonds, previously macerated in cold water, and deprived of its coat, and rub through a fine sieve; add the essential oils and the mixed yolk of egg, honey and almond oil, and beat all together until they are incorporated.

### Milk of Roses.

Some toilet preparations are known by this title. As examples may be mentioned Nos. III, V and VI, under the preceding title. The following formulæ may also be used for making a preparation of this name:

I. English milk of roses.

Sweet almonds, blanchedav.oz.	
Sweet almond oilfl.dr:	1
Soft soap (as white as possible)gr.	60
Rose waterfl.oz.	12
Oil of rosedrops	5
Alcoholfl.oz.	

Make an emulsion of the sweet almond oil, soap and water, strain and incorporate the oil of rose previously dissolved in the alcohol. B.

Sweet almond oilfl.oz. 1	
Soft soap (as white as possible).av.oz. 1	
Potassium carbonate	ł
Water, boilingfl.oz. 4	Ł
Alcoholfl.oz. 2	5
Oil of rosedrop 1	
Rose water, enough to make fl.oz. 16	1

Mix the first four ingredients intimately, allow to cool, add the alcohol containing the oil of rose, and finally add the rose water.

II. French milk of roses.

1.	
Tincture of benzoinfl.dr.	4
Tincture of storaxfl.dr.	
Spirit of rosefl.dr.	2
Alcoholfl.oz.	21/2
Rose waterfl.oz.	161/2
Mix the first four ingredients, and add	the

rose water gradually with frequent and vigorous agitation. B.

Tincture of benzoin.....fl.dr. 2 Tincture of Peru balsam.....drops 40 Alcohol.....fl.oz. 2 Rose water.....fl.oz. 14 Mix the tinctures and alcohol and then add

rose water gradually and with vigorous agitation.

III. German milk of roses.

Diluted solution of lead subace-

tate	fl.oz. 1
Spirit of lavender	
Rose water	
Water	fl.oz. 16

While this formula is given here for the sake of completeness, its use is not recommended owing to the presence of the poisonous lead compound.

Salicylic acid	gr. 15
Benzoic acid	gr. 15
Rose water	fl.oz. 28
Glycerin	fl.dr. 10
Alcohol	
Tincture of benzoin	fl.dr. 5
Oil of rose	drops 5
Oil of bergamot	drops 2
Oil of neroli	drop 1
Weaker tincture of orris	drops 3
Essence of jasmine	drops 10
Tincture of musk	
Coumarin sugar	
Solution of carmine	

Triturate the two acids with the rose until an intimate mixture is formed, then add the remaining ingredients, and mix well, using enough of the solution of carmine to impart a pale rose tint.—D.

#### Toilet Milks.

Some toilet washes are known by the appellation of "milks." These consist of an oily substance combined with borax, powdered soap, and a large quantity of water, and are therefore in a sense an imperfect and thin soap, the whole being suitably flavored. The only substance may consist of lanolin, cacao butter, cocoanut oil or a combination of these. According to this fatty constituent, the preparation receives the name of "cocoa milk," "cacao milk" or "lanolin milk." Another "milk" which is also used is "cucumber milk," which also contains borax, some oil or soap, and cucumber juice.

These preparations are used as a substitute for cold cream in cleansing the skin; it may also be applied to the skin at night instead of cold cream and may be applied to the face before using powder, to enable the latter to adhere more readily.

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# SKIN PREPARATIONS.

· · · · · · · · · · · · · · · · · · ·	
Borax, powdergr.	110
Soap, white castile, powderav. oz.	1/2
Cocoanut oilav.oz.	34
Lanolinav.oz.	134
Rose waterfl.oz.	20
Oil of bergamotdrops	8
Oil of nerolidrops	8
Oil of rosedrops	
Oil of wintergreendrop	
Oil of orris, liquid drop	1

Friturate the first four ingredients together until well mixed, then gradually add the rose water previously warmed to 40 degs. C., triturating constantly during this addition, and add the oils.—D.

#### II.

White castile soap, powdergr.	
Lanolinav.oz.	
Tincture of benzoinfl.dr.	
Distilled watersufficie	nt

Dissolve the soap in 2 fluidounces of warm water, also mix the lanolin with 2 fluidounces of water, then incorporate the two with each other, finally adding the tincture. The latter may be replaced by 90 gr. of powdered borax. III.

Borax, powdergr.	140
White castile soap, powder av. oz.	1/2
Cacao butter, gratedav.oz.	11/2
Cocoanut oilav.oz.	2
Waterfl.oz.	2
Rose waterfl.oz.	28
Oil of bergamotdrops	20
Oil of nerolidrops	5
Oil of orris drop	1
Vanilla sugargr.	150

Triturate the first five ingredients together in a warm mortar until well mixed, then gradually incorporate the rose water previously warmed to 40 degs. C., and add the remaining ingredients previously triturated together.—D.

#### IV.

Borax, powdergr.	90
White castile soap, powdergr.	180
Cocoanut oilav.oz.	11/2
Waterfl.oz.	1
Rose waterfl.oz.	17
Oil of bergamotdrops	8
Oil of nerolidrops	4
Oil of wintergreen drops	2
Oil of ylang ylangdrop	1
Oil of bitter almonddrop	1

Triturate the first four ingredients together until well mixed, gradually add the rose water, previously heated to 40 degs. C., until or cochineal if desired.

thoroughly incorporated and finally add the oils.-D.

V. Take fresh strained cucumber juice, bring to a boil as quickly as possible, cool down rapidly, and to every 5 fluidounces of this juice, add:

Borax, powder	175
Sodium acetategr.	90
Tincture of quillajafl.oz.	21/2
Tincture of benzoinfl.dr.	4
Rose or orange flower water fl.oz.	16

Mix the whole thoroughly. It may be tinted a pale green with chlorophyll and perfumed with essence of cassie.

VI.
Cucumber juice, boiled and
cooledfl.oz. 4
Spirit of soapfl.oz. 4
Rose or orange flower waterfl.oz. 8

This may be colored and perfumed like the preceding.

VII. The last two are known as 'cucumber milk'' or "milk of cucumbers"; this preparation has received the same title, but is devoid of cucumber in any form:

Borax, powdergr.	225
Sodium acetategr.	225
Spirit of soapfl.dr.	5
Tincture of benzoinfl.dr.	5
Glycerinfl.dr.	10
Rose waterfl.oz.	21
Oil of bergamotdrops	4
Oil of rosedrops	2
Spirit of orrisfl.dr.	11/2
Tincture of muskdrops	3
Coumarin sugargr.	12

Dissolve the borax and sodium acetate in the rose water, add the remaining ingredients, and mix well.—D.

# Toilet Lotions.

Under this title are included transparent preparations, which are employed instead of some of the preceding "creams" and "milks," for roughnesses of the skin, cracked hands, etc. These may be denominated "face lotion," "glycerin lotion," "cosmetic lotion." I.

Glycerin.....fl.oz. 3 Rose or orange flower water....fl.oz. 13

This may be tinted with solution of carmine r cochineal if desired.

I.

#### II.

Castile soap, whiteav.oz. 1/2
Honeygr. 120
Boraxgr. 120
Distilled extract of witch hazel.fl.oz. 2
Glycerinfl.oz. 2
Alcoholfl.oz. 2
Solution of cochineal, or car-
mine
Water, enough to make,fl.oz. 16

Dissolve the soap and borax in boiling water, allow to cool, add the other ingredients, macerate for 24 hours, and filter.

#### III.

Tincture of	arnica.	 fl.oz.	4
Glycerin		 fl.oz.	8
Rose water.		 fl.oz.	4

Mix and filter.

#### IV.

Boraxgr. 8	00
Glycerinfl. dr.	10
Rose waterfl.oz.	81
Coumarin sugargr.	15
Tincture of ambergrisdrops	3
Oil of rosedrops	
Oil of neroli drop	1
Solution of carmine	ent

Dissolve the borax and sugar in the water, add the glycerin and other ingredients, shake well, and filter. Sufficient of the carmine solution is to be used to impart a pale rose tint.-D.

# Toilet or Cosmetic Jellies.

These are preparations of stiff or thick consistence intended as emollient toilet applications for the skin. The body consists either of gelatin, starch, tragacanth, or similar substance. Other common ingredients are glycerin, water, and perfumed ("extract,' essence, or volatile oil). Other additions are boric acid, salicylic acid, fluid extract or tincture of arnica, fluid extract of calendula and distilled extract of witch hazel. Sometimes they are tinted a pale rose color with cochineal or carmine.

The common appellation for these jellies is "glycerin jelly." If containing arnica, they may be known as "arnica jelly"; if containing calendula, "calendula jelly"; witch hazel, "witch hazel jelly"; if tinted a rose color and flavored with oil of rose, "rose jelly " or " jelly of roses," etc.

tions must be dispensed in wide-mouthed bottles, or jars, or in collapsible tubes.

Gelatin										g	т.	1	60	)	to	1	24	0
Boric acid Glycerin																		
Water	•	 	• •		•	•	• •	•	•				fl.	. 0	NZ.		1	ö

Perfume to suit.

Dissolve the gelatin in the water by the aid of heat, also the acid in the glycerin, mix, allow to cool somewhat and incorporate the perfume.

The amount of gelatin may be varied to suit the thickness desired.

The perfume must be one which mixes without opalescence, or otherwise it mars the beauty of the preparation. Orange flower water or rose water may be substituted for the water if desired, or another perfume consisting of:

Vanillin	 		gr. 4
Coumarin	 		gr. 4
Spirit of bitter alm			
Alcohol	 ****	fl.(	1r. 3

added to the quantities given above would prove agreeable.

# II.

Gelatingr.	
White of eggav.oz.	1
Salicylic acidgr.	25
Rose waterfl.oz.	12
Glycerin, enough to make fl.oz.	25

Dissolve the gelatin in the rose water by the aid of the water bath, using a gentle heat. Allow to cool, and before it jellifies, add the albumen and stir together. Mix the salicylic acid with the glycerin, and after again apply. ing heat to the gelatin solution, add it to the latter, stirring constantly. When the mixture is quite homogeneous, remove from the fire and filter, by means of a hot filtration apparatus, directly into receptacles in which it solidifies. Instead of rose water, any other distilled perfumed water, such as orange flower water, may be used.

III.

Gelatinav.oz. 1	
Glycerinfl.oz. 16	
Waterfl.oz. 3	
Oil of rosedrops 2	
Oil of lavender flowersdrops 10	

Soak the gelatin in the mixed glycerin and Owing to their thickness, these prepara- water for 12 hours, then heat on a water bath

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aratil dissolved, and finally add the oils. Other flavors may be used. Also other addiions may be made; carbolic acid, for exarraple, would make it a carbolated glycerin elly.

LV.	
Fluid extract of arnica	
≤ilycerin	.fl.oz. 6 to 8
Gelatin	av.oz. 1
Water	sufficient

Cover the gelatin, contained in a suitable wessel, with cold water; allow it to macerate se veral hours or until soft and pliable; drain off the excess of water, dissolve by heat in the residual water and the glycerin, the quantity of the latter varying with the season, using more in the winter than in hot When dissolved, add the arnica, weather. perfume to suit and color with solution of carmine.

V.

Suitably perfume glycerite of starch and color it with solution of cochineal, and add extract of arnica. This and the preceding are known as "Arnica Jelly."

#### V٦

Glycerinff	l.oz. 61⁄a
Waterff	.oz. 6%
Starchav	
Fluid extract of arnicaf	l.oz. 1 🖌
Spirit of bitter almondf	l.dr. 21/2
Carbolic acidf	l.dr. 1

Mix the glycerin and water, add the starch, rub to a smooth mixture, and heat over a direct flame with constant stirring until a perfectly smooth jelly is formed; allow to cool, and when nearly cold, add the fluid extract, spirit and acid.

#### VII.

٦

Glycerite of starchav.oz Fluid extract of calendulafl.oz Solution of cochineal or car- minesufficient to color a rose	. 13
Oil of rosesufficient to perfe	ame
VIII.	
Glycerinfl.oz Tragacanth, powdered, enough	. 32
Tragacanth, powdered, enough to thicken, or aboutav.oz	. 1
Borax	
Orris root, powderav.oz.	. 2
Essence of cassie,	1
Essence of jasminefl.dr.	4

mix intimately with the tragacanth, adding the essences and orris root with trituration.

Owing to the odor, this should be denominated "violet jelly" or "jelly of white violets."

IX.

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Tragacanth, powdergr.	160
Glycerin	512
Waterfl.oz.	10 1/2

Triturate the gum with the glycerin and water to a smooth paste, and then perfume as desired.

Mucilage of Irish moss	av.oz.	4
Glycerin	fl.oz.	6
Distilled extract of witch hazel.	.fl.oz.	4
Cologne water	fl.oz.	2
Borax		

Dissolve the borax in the witch hazel extract, mix with 3 fluidounces of glycerin and with the cologne, add slowly to the mucilage previously mixed with the remainder of the glycerin. After standing a few hours strain the mixture.

XI.

Russian isinglassgr.	108
Clarified honeyav.oz.	1
Glycerinfl.oz.	51/2
Distilled extract of witch hazel.fl.oz.	
Distilled waterfl.oz.	6
Oil of nerolidrops	<b>30</b>

Dissolve the isinglass in the water by aid of a gentle heat, add the witch hazel extract, strain and finally add the oil.

XII.

Spermacetiav.oz.	3
White waxav.oz.	11/2
Sweet almond oilfl.oz.	6´
Glycerinfl.oz.	8
Tragacanth, powdergr.	45
Rose water fl.oz.	9

Dissolve the tragacanth in the glycerin, with gentle heat, and add the rose water; melt the other ingredients by heat, add to the glycerin mixture, and beat with an egg-beater until nearly cold, or triturate vigorously in a wide and capacious mortar.

XIII.

Glycerite	of	st	arc	h.	•			•	•	.av.oz.	12
Lanolin.		•••						•	•	. av. oz.	4

Triturate the lanolin with a small portion Mix the essences with the powdered orris of glycerite until thoroughly mixed, then add root; dissolve the borax in the glycerin and the remainder of the glycerite gradually,

rubbing thoroughly after each addition. Any suitable perfume may be added.

This preparation may be known as lanolin jelly or lanolin glycerite.

# Lime Juice and Glycerin.

This is a cosmetic lotion of indefinite character, usually containing no lime juice and frequently even no glycerin.

This preparation is not to be confounded with the preparation of the same title intended for internal use.

The following formulas may be employed: I.

Borax	dr. 2
Sweet almond oil	fl.oz. 26
Castile soap, white	dr. 2
Water	
Liquor potassa	fl.dr. 3
Perfume	

Dissolve the soap, finely shredded, and the borax in the water over a water bath, place in a large bottle, and gradually add the oil, shaking well after every addition; then add the liquor potassa, and shake well till cold; lastly add the perfume and give an occasional shake for 12 hours.

#### II.

Sweet almond oil	.fl.oz. 6
Castor oil	.fl.oz. 3
Lime water	.fl.oz. 4
Glycerin	.fl.oz. 2
Mix well by agitation.	

#### III.

Olive oil,	best.													.fl.oz.	8
Lime wa															
Oil of len	non	•	• •	•	•	•	•••	•	•	•	• •	• •	•	.fl.dr.	2

#### IV.

. .

Lime juice	fl.oz. 8
Rose water	fl.oz. 4
Alcohol.	.,fl.oz. 2
Oil of lemon	drops 24
Oil of lavender flowers	drops 24
Glycerin	fl.oz. 2

Mix the lime juice and rose water and add about two-thirds of the alcohol; shake well together, let stand about 24 hours, strain, add the other ingredients, first dissolving the oils in the alcohol.

#### **Camphor** Ice.

These are solid preparations containing fatty bodies like wax and spermaceti in combination with camphor, and are intended for metion of the hands and face where there the bands and face where there

is roughness or cracking of the skin. They are prepared by melting the fatty substances, allowing to cool somewhat, stirring in the camphor, allowing to cool, adding flavoring oil, if the latter be used, and pouring into molds. The best material for the latter is block tin. It may be chilled before cast ing the mixture as this renders adhesion less likely.

The usual way of putting up camphon ice for sale is to wrap it first in thin smooth pa reference, then in an outer covering of tin foil, and lastly to inclose it in a paper box.

Camphor ice may be known by this  $t \equiv \mathbf{z}$  le; if it contain glycerin, it should be know  $\mathbf{z}$  as glycerin camphor ice (sometimes also kn  $\mathbf{z}$  as '' compound glycerin cream ''), and if  $\mathbf{z}$  and if taining petrolatum as petrolatum cample are ice.

Spermaceti	. <b>av. o</b> z.	2
White wax		-
Sweet almond oil	fl. oz.	
Camphor	.av.oz.	2
Oil of bitter almond	fl.dr.	1
Expressed oil of mace	gr.	60

Melt the wax and spermaceti, add the severe the almond oil, then the camphor in small pieces, stir constantly until dissolved, allow to cool, stirring frequently; when quite cool, add the remaining oils, and finally pour the mix the into molds.

#### II.

Mutton suetav.oz	6
Spermacetiav.oz.	-
White waxav.oz.	-
Camphorav.oz.	1

Melt together by a gentle heat, reserving the addition of the camphor until the comparison of the ingredients are liquefied, on account of its volatility. Stir well as the mixture begins to cool, continuing until ready to set, compour into molds.

III.

Mutton suet, strained or		
tered clear		
Spermaceti		
White wax	gr. 3	
Camphor	av.oz.	
Melt the suet, spermaceti,	and man and	
e camphor in small pieces,	, stir until	•

solved, stir occasionally until quite cool, and II.

Glycerin Camphor Ice. (Compound

Glycerin Cream.

Stearin (stearic acid)av.oz.	4
Lardav.oz.	5
White waxav.oz.	21/2
Spermacetiav.oz.	21/2
Borax, powdergr.	
Glycerinfl.dr.	
Camphorav.oz.	1

Melt the first four ingredients on a water bath. Dissolve the borax in the glycerin. Add the latter gradually to the former; when at the point of cooling, stir well, add the camphor in pieces, stir again until dissolved and pour into molds.

II.

Spermacetiav.oz. 2	
White wax av.oz. 15	2
Olive, castor or cottonseed or	
other pure bland, fixed oil fl.oz. 10	
Camphorav.oz. 15	2
Glycerinfl.dr. 5	
Rose waterfl.oz. 15	2
Boraxgr. 40	

Melt together the two fats, add the oil, then the camphor and stir constantly until dissolved. Now, add the glycerin mixed with the rose water in which the borax has previously been dissolved, stir the whole until nearly cold, and pour into molds.

## Petrolatum Camphor Ice

Paraffin waxav.oz.	
White petrolatum av.oz.	8
White waxav.oz.	314
Camphorav.oz.	

Melt the two waxes together, add the petrolatum, and then the camphor in pieces, stir until the latter is dissolved, allow to cool, and pour into molds.

#### Toilet Lanolin.

Under this heading are included fatty combinations consisting mainly of lanolin, which may be put up in stick form by the usual method of casting in molds. (See "Camphor Ice.")

I.

Benzoinated suet		 			.av.oz. 3
Lanolin					
Boric acid, powder.	• •		 *	,	.av.oz. 1

Melt the suet, add the lanolin, stir in the acid, and form into sticks.-D.

Benzoinated suet av. oz.	5
Yellow waxav.oz. \$	3
Lanolinav.oz.	1/2
Carbolic acid, crystalav.oz.	1/2

Melt the wax and suet, add the lanolin and acid, and form into sticks.-D.

III.

Benzoinated suetav.oz.	
Yellow waxav.oz. Lanolinav.oz.	34
Lanolinav.oz.	61/2
Salicylic acidgr.	90

Melt the suet and wax, stir in the acid, add the lanolin, and form into sticks.-D.

# Almond Paste. (Amandine.)

Bitter almondsav.oz. 7	
Orris root, powderav.oz. 13	1
White castile soap, powder, av.oz. 13	Z
Glycerite of starchav.oz. 31	4
Clarified honeyav.oz. 2	
Oil of lavender flowersfl.dr. 1	
Oil of bergamotfl.dr. 2	
Oil of bitter almondsdrops 8	
Solution of cochineal, to color sufficient	

Blanch the almonds, heat them with a small quantity of water to a smooth paste, add the other "ingredients, and mix intimately.

II.

4.		
Sweet almonds, blanched	av.oz.	7%
Bitter almonds, blanched	av.oz.	5
Borax, powder	gr.	320
Liniment of camphor	.fl.dr.	10
Spermaceti	av.oz.	14
Starch	av.oz.	5
Talcum, powder	av.oz.	21/2
Rose water		51/2
Oil of bergamot	.drops	12
Oil of rose	.drops	6
Oil of cassia	.drops	4
Oil of cloves	.drops	2
Oil of sassafras	.drops	2
Oil of ylang ylang	drop	1
Oil of orris, liquid	drop	1
Tincture of civet		10
Tincture of musk		5
Coumarin	gr.	1
	-	

Mix the first three ingredients and 4 fluidrams of rose water intimately so as to form a perfectly smooth paste. To this mixture add the liniment and spermaceti previously melted together, now incorporate the talcum and starch previously made into a smooth paste with the remaining rose water, and finally add the other ingredients, also previously mixed so as to dissolve the coumarin. THE STANDARD FORMULARY.

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The whole may be colored a pale rose tint, if desired, by means of alkannin.-D.

III. ·	
Bitter almonds, blanched av. oz.	4
Honeyav.oz.	
Volk of eggav.oz.	
Sweet almond oilfl.oz.	
Oil of bergamotfl.dr.	1
Oil of clovesfl.dr.	1

Beat the almond to a fine paste, then gradually and thoroughly add the remaining ingredients, which have previously been well mixed.

I	V	r.		
		S	W	1

Sweet almonds, blanched av.oz. 8 Bitter almonds, blanched av.oz. 8 Rose water
Rose water
Rose water
Eggs, white and yolk
Borax, powderav.oz. 1         Potassium carbonate, fine pow- der
Potassium carbonate, fine pow- der
der
Glycerinfl.oz. 2½ Corn meal flourav.oz. 8 Tincture of curcumasufficient to color Oil of rosedrops 20 Oil of bergamotdrops 8 Oil of nerolidrops 5
Corn meal flourav.oz. 8 Tincture of curcumasufficient to color Oil of rosedrops 20 Oil of bergamotdrops 8 Oil of nerolidrops 5
Corn meal flourav.oz. 8 Tincture of curcumasufficient to color Oil of rosedrops 20 Oil of bergamotdrops 8 Oil of nerolidrops 5
Tincture of curcumasufficient to color         Oil of rosedrops \$0         Oil of bergamotdrops \$8         Oil of nerolidrops \$5
Oil of rosedrops 20 Oil of bergamotdrops 8 Oil of nerolidrops 5
Oil of bergamotdrops 8 Oil of nerolidrops 5
Oil of nerolidrops 5
Oil of sassafrasdrops 2
Oil of orris, liquid drop 1
Tincture of muskdrops 6
Coumaringr. 11/2
Vanillingr. 8

Reduce the sweet and bitter almonds with the rose water to a smooth paste, mix the eggs, borax, potassium carbonate, and glycerin, add to the preceding mixture, then incorporate the flour, the curcuma tincture and the perfumes, the latter being previously mixed so as to dissolve the coumarin and vanillin.—D.

# Almond Meal. (Mandelklei.)

Sometimes this is prepared from ordinary bitter or sweet almonds and sometimes from almonds from which the oil has been expressed. This is ground fine, sifted, mixed with powdered orris, soap or other ingredients, and perfumed.

I.

Almonds, blanched and pow-	
deredav.oz.	8
White castile soap, dried and	-
powderedav.oz.	4
Orris root, powderav.oz.	1
Pumice stone, fine powderav.oz.	3
Oil of bitter almondsfl.dr.	1

I.	
Sweet almonds, blanched and	
powdered av.oz.	3
Wheat flourav.oz. 8	
Orris root, powderav.oz.	
Oil of lemonfl.dr.	
Oil of bitter almonddrops &	ş.,
IL	
Almond meal, prepared from	
blanched bitter almonds from	
which the oil has been ex-	
pressed, in very fine powder.av.oz. (	\$
Orris root, fine powder av.oz.	È.
Wheat flour av.oz. 4	Ł
White castile soap, powderav.oz. 1	1
Borax, powder,	
Oil of bitter almonds drops 10	).
Oil of bergamotfl.dr.	
Tincture of musk fl.dr. 1	
Mix well and pass through a fine sieve.	
V.	
Sweet almonds, blanched and in	
fine powder av.oz. 1	1
Bean flour (or starch)av.oz. 1	
Orris, fine powderav.oz. 4	
White castile soap, powder av. oz.	
Spermacetiav.oz.	
Sodium carbonate, driedav.oz.	2
Oil of bergamotfl.dr. 1	1
Oil of lemonfl.dr. 1	
Oil of lavender flowersfl.dr. 1	
Mix all intimately to form a fine power	Je
nd sift.	
· · · · · · · · · · · · · · · · · · ·	
Sweet almonds, blanched and	

Sweet almonds, blanched and powderedav.oz.	2
Bitter almonds, blanched and	
powderedav.oz.	1
Orris root, powderav.oz.	7
Talcum, powderav.oz.	5
White castile soap, powder av.oz.	
Borax, powdergr.	100
Oil of bitter almondsdrops	10
Oil of nerolidrops	10
Tincture of muskdrops	

To reduce the cost the almonds may be replaced by almond press cake (deprived of oil), orris root by wheat flour, and the volatile oils reduced or changed.

VI.

Cacao butterav.oz.	2
Talcum, powderav.oz.	4
Bean flour (or starch)av.oz. \$	05
Sweet almonds, blanched and	
powderedav.oz. 1	10
Glycerinfl.dr. 1	13
Cologne waterfl.oz,	2
Coumaringr.	2
Oil of bitter almonds, drops \$	25
Tincture of ambergris drops	6
Martin al and a state of the st	

Melt the cacao butter, thoroughly incor-

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## SKIN PREPARATIONS.

porate the talcum, then add the bean flour (or starch) and the almonds. Dissolve the coumarin and oils in the cologne water, add the glycerin and tincture, and incorporate this mixture with the preceding combination-D.

# Complexion or Face Powders.

Complexion powders contain such constit- II. uents as talcum, starch, precipitated chalk, bismuth subnitrate, oxide, hydrate, subcarbonate or oxychloride, zinc oxide, magnesium carbonate or oxide, and orris root, together with suitable perfume and with coloring matter if a colored powder be desired. These solids must be in the form of fine powder, must be intimately mixed, and then sifted through a fine bolting cloth sieve; whatever fails to pass through the sieve must be returned to the mortar and be still further triturated until all will pass through. If colored powder is to be prepared, the coloring matter should be added to the powder before sifting. After sifting, the perfume may be added; the whole should be again passed through the sieve to break up any lumps which may have formed by the addition of the moist perfume to the dry powder.

If a flesh-colored powder is desired, carmine is employed as the coloring agent. Sometimes a brunette powder is desired and then burnt umber is used as the coloring agent; cream powder is prepared by the use of cadmium yellow or chrome yellow (lead chromate), a trace of carmine being added sometimes. In the formulas given below, no coloring agents are mentioned, it being intended that these should be added only as desired.

In preparing face powders, the best materials should be employed. For example, Hubbuck's zinc oxide only should be used. The best talcum is what is known as Venetian chalk; the best precipitated chalk is the kind known as the English; the preferred bismuth subnitrate should be a very light variety, etc.

Some face powders are made with a lead salt; the latter should, owing to its poisonous character, never be employed.

Talcum,	powderav.oz.	10
	rav.oz.	
Zinc oxi	deav.oz.	5

Mix well and perfume with a mixture of oils of bergamot, ylang ylang and nerch.

This preparation is known as "Sarah Bernhardt's Face Powder," also as "la Diaphane."

Any other perfume may be used if desired.

Talcum,	powderav	.oz. 15
Starch		.oz. 11/2
Orris roo	av	.oz. 11/2
Oil of be	gamotdi	rops 12

# III.

Zinc oxide av.oz.	4
Precipitated chalk	24
Talc, powderav.oz.	
Starchav.oz.	8
Essence of rosefl.dr.	2
Essence of jasminefl.dr.	2
Essence of orange flowersfl.dr.	2
Essence of cassiefl.dr.	2
Tincture of muskfl.dr.	1

If this powder be too light, a portion of the precipitated chalk may be replaced with prepared chalk.

V		
T	'alcum, powderav.oz.	5
Z	inc oxide av.oz.	5
C	halk, preparedav.oz.	21/2
S	tarchav.oz.	15
E	Ssence of jasminefl.dr.	4
0	oil of bergamotdrops	15
O	oil of rosedrops	8
0	oil of ylang ylang drops	2
0	oil of nerolidrops	8
0	Dil of orrisdrop	1
T	incture of muskdrops	5
7	and the second se	
.т	alcum, powderav.oz.	16
B	lismuth oxideav.oz.	1
	inc oxideav.oz.	
		-
P	erfume to suit.	
/I.		
Z	inc oxideav.oz.	4
·R	lice powderav.oz.	14
	recipitated chalk av.oz.	4
T	'alcum powderav.oz.	2
	Prris root, powderav.oz.	2
P	erfumesufficie	nt
II		
Z	inc oxide	2
0	rris root, powderav.oz.	2
R	lice flourav.oz.	16
0	oil of rosedrops	9
0	il of rose geraniumdrops	3
0	il of ylang ylang drop	1
C	oumaringr.	1/2
A	cetic etherdrops	10
M	lix the first three ingredients, mix	the

other ingredients so as to dissolve the coumarin, and incorporate this mixture with the powder.—D.

## VIII.

Zinc oxideav.oz.	2
Orris root, powderav.oz.	4
Talcum, powderav.oz.	4
Starchav.oz.	10
Essence of jasminefl.dr.	21/2
Oil of rosedrops	
Oil of bergamotdrops	
Oil of ylang ylangdrop	1
Tincture of muskdrops	
Coumaringr.	

Mix the first four ingredients intimately, discolve the coumarin in the essence, add the oils and tincture, and incorporate this mixture with the powder.—D.

#### IX.

Zinc oxideav.oz.	4
Orris root, powderav.oz.	2
Starchav.oz.	
Talcum, powderav.oz.	7
Oil of bergamotdrops	20
Oil of rosedrops	10
Oil of nerolidrops	5
Tincture of muskdrops	4
Coumaringr.	1/2
Acetic ethersufficie	

Mix the first four ingredients intimately, add the oils, tincture and coumarin, first dissolving the latter in a small amount of acetic ether.—D.

# Х.

Zinc oxideav.oz.	4
Starchav.oz.	6
Talcum, powderav.oz.	4
Oil of bergamotdrops	20
Oil of rosedrops	8
Oil of lemondrops	4
Oil of orris, liquiddrop	1
Tincture of ambergrisdrops	10
Coumaringr	- 14
Acetic etherm.	

Mix the first three ingredients intimately to smooth powder, and add the remaining ingredients previously mixed, so as to dissolve the coumarin. One-half of the zinc oxide may be replaced by bismuth subnitrate. D.

#### XI.

r.oz. av.oz.	2
	<u>e</u>
rops	8
rops 2	<u>()</u>
l.dr.	4
l.dr.	
	rops \$ 1.dr.

# XII.

•	
Bismuth subcarbonateav.oz.	4
Zinc oxideav.oz.	4
Talcum, powderav.or.	5
Precipitated chalk	5
Starchav.oz	7
Oil of rose geraniumdrops	40

#### XIII.

Lanolin, anhydrous	
Starchav.oz 1	
Talcum, powderav.oz 20	
Coumarin	
Oil of rosedrops 16	

The lanolin and the perfume are gradually mixed, the talcum, and then the starch is added.

Lanolin may also be incorporated in face powders by dissolving some volatile solvent like ether, chloroform, or benzine, incorporating this solution quickly with magnesia, chalk or other powder, allowing the solvent to vaporize, and incorporating other suitable ingredients with the residue.

Lanolin is introduced into some face powders owing to the dryness of the skin or to prevent the latter from becoming dry and scaly. The fat imparts to the powder a desirable smoothness, increases the power to adhere to the skin, and preserves the latter a smooth and supple condition.

#### Complexion Tablets.

Any of the preceding powders may be converted into the tablet or cake form by adding a small amount of powdered tragacanth, beating into a stiff paste with water, pressing into suitable molds, and then drying.

# Toilet and Nursery Powders.

# I.

Talcumav.02.	11
Salimilia acid m	165
Boric acidav.oz.	-15
All should be in fine nowder and	should

All should be in fine powder and should be mixed intimately.—N. F.

# II.

Talcum	11
Starch	- 1,74
Salicylic acidgr.	100
Prepare like the precedingGerm. P	narm.

This preparation as well as the preceding may be perfumed as desired; or they may also be carbolated.

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# SKIN PREPARATIONS.

### III.

Starchav.oz.	15
Orris rootav.oz.	1
Talcumav.oz.	
Oil of lemonfl.dr.	1/2
Oil of bergamotfl.dr.	1/2
Oil of nerolidrops	15
Oil of bitter almond drops	3
Oil of verbenadrops	

The first three must be in very fine powder and the whole should be well mixed, after which it should be sifted through a very fine sieve.

#### IV

Salicylic acid	80
Starchav.oz. 1	12
Talcum	4
Orris rootav.oz.	1
On of beigamot,	8
Oil of nerolidrops	4
Tincture of muskdrops	5
Mix and reduce to impalpable powder.	

#### V.

Orris, powder	.av.oz.	1/2
Starch, powder	.av.oz.	16
Oil of rose	, drops	2
Oil of lavender flowers	, drops	4
Oil of bergamot	.drops	15
Tincture of musk	. drops	15
Essence of violet		
VI.		

through bolting cloth.			
Mix well, reduce	to	powder, and	sift
Starch			
Zinc oxide			
Camphor			

This is known as "McCall Anderson's Dusting Powder."

# VII.

Talcumav.oz. 1	1
Boric acidav.oz. 2	1
Zinc oxide av.oz. 8	\$
Rice powderav.oz. 8	3
Perfume as desired.	

#### VIII.

Fulle	r's e	arth.			av	.oz.	8
Oil of	lave	ender.			d	rops	5
Mix	the	first	two	ingrea	lients	in	fin

powder and incorporate the oil.

# IX.

Wheat flour,	Į.
Orris root, powderav.oz. 2	
Oil of lemondrops 15	5
Oil of bergamot drops 15	5
Oil of nerolidrops &	
Oil of bitter almonddrop 1	
Tincture of muskdrops &	3

# х.

Starchav.oz.	24
Orris rootav.oz.	
Oil of lemondrops	20
Oil of bergamot drops	20
Oil of nerolidrops	
Oil of bitter almond drop	1
Tincture of muskfl.dr.	+
Mix the starch and arris in yory	6.00

Mix the starch and orris in very fine powder and add the other ingredients.

# XI,

Fuller's earthav.oz.	9
Boric acidav.oz.	14
Talcumav.oz.	
Starchav.oz.	9
Orris rootav.oz.	11
Oil of bergamotfl.dr.	2

# XII.

Fuller's earthav.oz.	3
Talc, powderedav.oz.	9
Starch, powderedav.oz.	

The two preceding, being in very fine powder and perfumed, are known as "Medicated Fuller's Earth" Powder.

# Liquid Cosmetics.

Any of the various mineral powders used as cosmetics may be converted into lotions by mixing with water, which may or may not be perfumed or colored; a small amount of glycerin is frequently added. The powders do not dissolve, but are simply suspended by shaking.

Substances suitable for the purpose indicated are: Prepared chalk, magnesium carbonate, zinc oxide, the oxychloride or subnitrate of bismuth. The last two resemble chalk in density, but much excel it in whiteness.

Unscrupulous or careless persons sometimes use white lead in the preparation of cosmetics, and calomel is said to be the chief ingredient of a proprietary cosmetic that has had some reputation. The character of both these substances renders their use for such purposes dangerous, as even external application may produce the constitutional effects of lead or mercury.

In making these preparations a perfectly smooth mixture must be made by long trituration, preferably triturating the powder first with the glycerin. If a white preparation is desired, no coloring agent is added; but if a flesh-colored preparation, then soluTHE STANDARD FORMULARY.

tion of carmine or an alcoholic solution of	The emulsion may be prepared from one
eosin must be added. No coloring agent or	av. ounce of almond.
perfume is mentioned in the formulas below,	Other "bleaches" contain from one-half to
as these may be added as desired.	one grain corrosive sublimate to the fluid-
These liquid cosmetics are usually known	ounce.
by such titles as "enamel," "oriental cream,"	The above is known as Hebra's Oriental
"pearl cream," "liquid pearl," "balm,"	Cosmetic Water.
"liquid face paint," etc, They are usually	Applications for Blackheads or Com-
dispensed in white (opaque) bottles.	edones.
I.	L
Calomelav.oz. 2	Before retiring bathe the parts affected
Bismuth subnitrateav.oz. 1 Zinc oxideav.oz. 1	with very hot water, dry well, then rub thor-
Glycerinfl.oz. 2	oughly with a lotion consisting of:
Water enough to makefl.oz. 14	Etherfl.oz. 1
II.	Alcohol
Zinc oxideav.oz. 2	Aromatic spirit of ammoniafl.dr. 2
Glycerinfl.oz. 6 Waterfl.oz. 8	The object of this is to dissolve the se- baceous deposits. To further soften and
Oil of bergamotdrops 4	A CALLER AND A CAL
Oil of lemondrops 4	loosen the same, a paste is applied, com-
III.	posed of:
Bismuth oxychloride,av.oz. 11	Acetic aciddr. 2 Glycerindr. 3
Precipitated chalkav.oz. 3 Glycerinfl.dr. 6	China claydr. 4
Waterfl.oz. 15	Perfumesufficient
IV.	This paste is removed by washing on the
Bismuth subnitrateav.oz. 2	following morning. After a few days the
Glycerinfl.oz. 1	comedones can be easily expressed, if neces-
Water, enough to makefl.oz. 16	sary, with the aid of a watch key.
V. Zinc oxideav.oz. 214	Friction with a Turkish towel, the use of
Precipitated chalk	soap containing tar, resorcin or ichthyol,
Alcoholfl.oz. 3	rubbing with resorcin solution in spirit of
Waterfl.oz. 12	ether, etc., constitute a good after treatment.
VI.	II.
Bismuth oxychlorideav.oz. 31 Glycerin	Resorcingr. 60
Alcohol	Zinc oxidegr. 120
Waterfl.oz. 10	Petrolatum
Face Bleach.	III.
Under this name are marketed a number of	Ammonium carbonategr. 20
preparations of which the principal or active	Ether fl.oz. 1
constituent is corrosive sublimate. The use	Water fl.oz. 1
of such preparations is not countenanced,	Apply several times daily.
and the following formula is given only be-	IV.
cause the preparation is in occasional de-	Lanolingr. 100 Petrolatumgr. 200
mand:	Hydrogen peroxidefl.dr. 4
Mercury bichloridegr. 1	Apply at night.
Emulsion of bitter almondfl.oz. 12	V.
Tincture of benzoinfl.dr. 1	
The mercury salt is dissolved in the emul-	Petrolatum av.oz. 1 Lanolin (anhydrous),av.oz. 1
sion and the mixture gradually added to the	Hydrogen peroxidefl.oz. 1
tincture. This preparation does not keep	Acetic acidfl.dr. 1
long; should be kept in small opaque vials	VI. The preparation employed for the re-
and be dispensed only with a "shake well"	moval of pimples may usually also be used
IabelD.	against blackheads.

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Freckle Bemedies.         I.         Boraxgr. 60         Potassium chlorategr. 240         Alcoholfl.dr. 1	Spermaceti
Glycerinfl.dr. 2 Rose water, enough to make∴fl.oz. 3	Rub this on, night and morning, for five minutes, with a clean finger.
Dissolve as much as possible of the two	VI.
salts and filter.	Copper oleate
Label: Apply with a soft sponge several	Apply twice a day.
times a day.	VII.
This forms a mild harmless lotion and	Zinc sulphocarbolategr. 15
frequently answers completely in mild cases.	Glycerinfl.dr. 4
The same remarks apply to the next prepa-	Rose waterfl.oz. 21/2
ration.	Alcoholfi.dr. 2
II.	Cologne waterdrops 15 Spirit of camphordrops 15
Sodium sulphocarbolategr. 50	Dissolve the zinc salt in the glycerin and
Glycerinfl.oz. 2	rose water and add the other ingredients.
Rose waterfl.oz. 1 Alcoholfl.oz. 1	In using wash the face morning and evening
	with soap, dry well, apply the solution, and
III.	allow the latter to dry upon the skin.—D.
Salicylic acidgr. 60	This is intended for the removal of sum-
Bay rumfl.oz. 4	mer freckles.
Label: Apply night and morning with a	
soft cloth or sponge.	VIII.
This lotion soon produces a slight rough- ness of the skin, which should be subdued	Zinc sulphocarbolategr. 60 Oil of lemonfl.dr. 1 Alcoholfl.oz. 1
by the use of glycerite of starch. Care must	Collodion flexiblefl.oz. 5
be taken not to get any of it too near the	After bathing the face with hot water
eyes, nostrils and lips. Should the skin be-	and drying, apply with a brush.
come red and irritated, the lotion must be	IX.
suspended for a few days to allow the in- flammation to subside.	Lactic acidfl.oz. 1 Glycerinfl.oz. 1
IV.	Apply once a day.
Mercuric chloridegr. 6 Alcoholfl.oz. 1 Green soapav.oz. 2	X. Citrin ointmentgr. 60 Cold creamgr. 420
Oil of lavenderdrops 10	Apply night and morning.
Label: Apply at night and wash off in the	XI.
morning. Some kind of glycerin cream	Zinc sulphategr. 20           Cold creamav.oz. 1
should be applied during the day.	Dissolve the salt in a small amount of
This is to be used only in obstinate cases.	water and incorporate with the ointment.
The same applies to the next formula.	Use like the preceding.
V.	XII. Some of the preparations intended to
Corrosive sublimategr. 8	remove tan or sunburn may frequently also
Distilled waterfl.oz. 7 Spirit of camphorfl.dr. 4	be employed to remove freckles.
Rose waterfl.dr. 6	Applications for Pimples or Acne.
Apply upon three or four thicknesses of	••••••••••••••••••••••••••••••••••••••
inen, cut to fit, at night. Remove when	
dry. After a few nights redness of the epi-	Potassium iodidegr. 20 Sodium bicarbonategr. 20
dermis is induced, when it peels off in fine scales; then may be used an ointment com-	Aromatic spirit of ammoniafl.dr. 1/2 Bay rumfl.oz. 1
posed of:	Camphor water enough to make fl. oz. 4

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  - Corrosive sublimate......gr. 1 Compound spirit of lavender....fl.dr. 2 Glycerin.....fl.dr. 6 Mix and dissolve.

Apply with a brush, using with great caution.

### III.

Carbolic aciddrops	15
Boraxgr.	
Glycerinfl.dr.	
Tannin,gr.	
Alcoholfl.oz.	
Rose waterfl.oz.	21
Mix and dissolve.	

Apply night and morning.

#### IV.

Ichthyolgr. 9	0
Etherfl.dr.	
Alcoholfl.dr.	4
To be used externally, dabbing over	the

spots several times daily.

V. When there is much pustulation the following ointment may be used:

Bismuth sul	onitrate	gr. 30
Ammoniated	mercury	gr. 30
	*************	

For external use. Every evening at bedtime, the pustules should be smeared with this ointment.

VI. Most of the preparations intended for the removal of blackheads may also be used against pimples.

In the treatment of acne it may be found advisable to assist the action of external remedies by the exhibition of internal medicines.

Applications for Tan and Sunburn. I.

Hydrochinonegr. 43	
Glacial phosphoric acidgr. 30	)
Glycerinfl.dr.	1
Water, enough to make fl.oz.	3
Mix and dissolve.	

This is to be applied twice daily, first washing and drying the skin carefully.

II. Under the name albadermine has been devised a foreign process for the removal of tan, sunburn, and summer freckles which requires the use of two solutions:

#### Solution "A."

Potassium iodidegr.	120
Iodinegr.	6
Glycerinfl.dr.	3
Infusion of rosefl.oz.	4

Dissolve the potassium iodide in a small quantity of the infusion and one fluidram of the glycerin; with this fluid moisten the iodine in a glass mortar and rub it down, gradually adding more liquid until complete solution has been obtained; then stir in the remainder of the ingredients, and bottle the mixture.

# Solution "B."

Sodium hyposulphite.....gr. 240 Rose water.....fl.oz. 16 Dissolve and filter.

With a small camel's hair pencil or piece of fine sponge apply a little of "A" to the tanned or freckled surface, until a slight but tolerably uniform brownish-yellow skin has been produced. At the expiration of fifteen or twenty minutes moisten a piece of cambric, lint or soft rag with "B" and lay it upon the affected part, removing, squeezing away the liquid, soaking it afresh, and again applying until the iodine stain has disappeared. Repeat the entire process thrice daily, but diminish the frequency of the application if tenderness be produced. In the course of from three or four days to as many weeks the discoloration will either have disappeared entirely, or its intensity will be very greatly diminished.

III.

Sweet almonds, blanched av.oz.	1
Bitter almonds, blanchedav.oz.	+
Corrosive sublimategr.	15
Alcoholfl.dr.	
Water.,,sufficie	nt

Mix and crush the almonds and add enough water so as to obtain 16 fluidounces of emulsion. To the latter add the corrosive sublimate dissolved in the alcohol.

This preparation is well known under the name "Gowland's Lotion." It should be applied at night and be washed off in the morning, after which an emollient preparation like a mixture of glycerin and rose water, or cold cream, should be applied.

IV.

Borax					gr.	820
Zinc oxid						
Glycerin Bay rum					fl.oz.	24
Bay rum					fl.oz.	24
Distilled	wate	er		****	fl.oz.	10
Mix and	apply	free	ely 5	or 6	times da	ily.

V. Most of the preparations employed in the

v.

treatment of freckles may also be used for III. the removal of tan and sunburn.

#### **Miscellaneous Cosmetic Preparations.**

Under this heading are grouped a number of preparations which are demanded occasionally and cannot be appropriately classed under any other heading.

Sulphur, precipitatedgr.	150
Glycerin	5
Camphor	15
Cologne waterfl.oz.	1
Boraxgr.	
Distilled waterfl.oz.	141
Tincture of muskdrops	3

Triturate the sulphur to a smooth paste with the glycerin, dissolve the camphor in the cologne water and the borax in the distilled water, mix all, and add the tincture.

The sulphur will be found at both the bottom and the top of the mixture. This may be overcome, in a great measure at least, by adding to the above mixture 1 fluidounce of ether.—D.

#### B.

Camphor, fine powdergr	90
Acacia, powdergr.	180
Sulphur, precipitatedav.oz.	24
Rose waterfl.oz.	8
Lime waterfl.oz.	9

Mix the first three ingredients intimately, gradually add the rose water with constant trituration, and then add the lime water.—D.

Another formula uses the same amount of solids for 30 fluidounces of each of the waters.—H.

II.	Eau de Lys de L	ohse.	
Zince	oxide	igr.	75
	m, powder		
Glyce	rin	fl. är.	5
Rose	water	fl.oz.	15
Tinct	ure of benzoin	fl.dr.	21
Essen	ice of jasmine	m.	40
Coum	arin sugar	gr.	8
	ure of musk		
	of orris		
	of ylang ylang		8

Triturate the first two ingredients with the glycerin, add the tincture of benzoin, incorporating thoroughly and then add the remaining ingredients with trituration.—D.

#### . Hebra's Cosmetic Liniment or Sulphur Paste.

Potassium carbonate	av.oz. 5
Glycerin	fl.oz. 4
Sulphur, precipitated	av.oz. 5
Water	fl.oz. 1
Alcohol	
Ether	fl.oz. 6
There has the meteorium on	-honets in th

Dissolve the potassium carbonate in the glycerin, incorporate the sulphur and add the remaining ingredients previously mixed.

Used against flesh worms. Apply at night and wash off in the morning.-D.

IV.	Lilionese (or Lilionese Cosmetic	
	Water).	

Borax	gr. 110
Potassium carbonate	gr. 40
Rose water	fl.oz. 15
Cologne water	fl.dr. 4
Talcum, powder	
Glycerin	
Tincture of benzoin	

Dissolve the borax and potassium carbonate in the rose water and add the cologne water previously mixed with the tincture; rub the talcum to a smooth paste with the glycerin and gradually add to it the previous mixture.—D.

#### May Dew Water.

Boraxgr. 40	
Sodium hyposulphitegr. 375	
Glycerinfl.dr. 5	
Distilled waterfl.oz. 14	
Cologne waterfl.oz. 1	
Oil of nerolidrops 5	
Oil of ylang ylang drop 1	
Essence of jasminedrops 10	
Tincture of ambergrisdrops 2	
Tincture of muskdrop 1	
Mix the first four ingredients and add the	he

remaining ingredients previously mixed.—D.

# VI.—A. Lait Virginal (Virgin's

SI 11K ).	
Tincture of tolufl.dr.	51
Tincture of benzoinfl.dr.	2ļ
Spirit of soapfl.dr.	- 2 <del>i</del>
Glycerin	5
Boraxgr.	110
Orange flower waterfl.oz.	31
Rose waterfl.oz.	5
Distilled waterfl.oz.	- 81
Essence of jasminem.	40
Oil of rosedrops	5
Spirit of orrisdrops	30
Tincture of civetdrops	2
Coumarin sugargr.	4

Dissolve the borax in the water and add the solution to the tinctures by trituration,

then add the spirit of soap and the other waters and finally the perfumes.—D. B. Tincture of benzoinfl.dr. 31 Tincture of tolufl.dr. 5 Rose or orange flower waterfl.oz. 15 Mix the two tinctures and add the water very slowly in a thin stream with vigorous and constant stirring. C.	Carminegr. 30 Ammonia watergr. 30 Ammonia waterfl.dr. 1 Rose waterfl.oz. 4 Spirit of rosefl.dr. 1 Mix, set aside 24 hours, agitating fre quently, and filter. II. Eosingr. 1 Waterfl.dr.
Tincture of benzoinfl.dr.       4         Glycerinfl.dr.       4         Rose waterfl.dr.       4         Mix the first two ingredients and add the	Glycerin
<ul> <li>water gradually with vigorous stirring.</li> <li>D. Tragacanth, powdergr. 10 Glycerinfl dr. 7 Rose waterfl dr. 71 Tincture of benzoinfl.dr. 31 Make a smooth mixture of the glycerin, gum and water, and then thoroughly incorporate the tincture.</li> </ul>	Rosanilin
VII. Eau d'Hebe. Oil of lavender flowersdrops 25 Oil of lemondrops 10 Oil of bergamotdrops 5 Oil of rosedrops 3 Alcoholfl.oz. 5 Diluted acetic acidfl.oz. 10 Mix the oils with the alcohol, add the acid, and filter.—H.	stirring until the mixture has cooled. IV. Eosingr. 3 Rosanilingr. 3 White waxgr. 50 Spermacetigr. 50 White petrolatumgr. 380 Oil of lavender flowersdrops 2 Oil of bergamotdrop 1
<ul> <li>VIII. Copeland's Cosmetic Water.</li> <li>Emulsion of bitter almonds, fl.oz. 31 Rose water, fl.oz. 4 Orange flower water, fl.oz. 4 Borax, gr. 60 Tincture of benzoin, fl.dr. 2 The emulsion may be prepared from one- half av. ounce of bitter almonds.</li> <li>IX. Goddard's Cosmetic Lotion.</li> </ul>	Alcohol.       fl.dr.         Prepare like the preceding.         V.         Eosin.       gr.         Wax.       gr.         Spermaceti.       gr.         gr.       50         Petrolatum, white.       gr.         Oil of rose.       drops         Alcohol.       fl.dr.         Prepare like the preceding.
Corrosive sublimategr. 6 Tincture of benzoinfl.dr. 2 Rose waterfl.oz. 6 <b>Bouges.</b> These are preparations of deep red tint employed usually for heightening the color of the cheeks. They may be in liquid, oint- ment, or tablet forms. The coloring agent is either carmine, eosin, or rosanilin. The liquid preparations receive a fanciful name like "vinegar rouge," "maiden's blush," or "bloom of roses."	VI. Carmine

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# Theatrical Grease Paints.

In preparing these the solid fats should be melted first, the fixed oils then added, incorporate the coloring agent, add the perfumes, and form into sticks if desired

[. White:	
A. Prepared chalkav.oz. 4	
Zinc oxideav.oz, 4	
Bismuth subnitrateav.oz. 4	
Asbestos, powderav.oz. 4	
Sweet almond oilabout fl.oz. 2	ł
Camphor	
Oil of peppermintfl.dr. 3	
Ess. bouquet extractfl.dr. 3	
Sufficient almond oil should be used	to
form a mass of proper consistence.	
B.	
White waxav.oz. 2	
Olive or sweet almond oilfl.oz. 3	
Talc, powderfl.oz. 1	
Zinc oxidefl.oz.	ł
С.	
Bismuth oxychlorideav.oz. 5	
White waxav.oz. 2	
Sweet almond oilfl.oz. 5	
D.	
Zinc oxide	
Olive oilfl.oz. 1	ł
Paraffin waxav.oz. 3	
Cacao butterav.oz. 4	
Oil of bergamotdrops 5	
Oil of rosedrops 5	
Oil of lemondrops 3	
Tincture of civetdrops 5	
—D.	
II _ Red.	

#### II.—Red:

A. Same as any of above, coloring with an ammoniacal solution of carmine.

## R.

Cacao butterav.oz.	4
White waxav.oz.	4
Olive oilfl.oz.	2
Oil of rosedrops	8
Oil of bergamotdrops	8
Oil of nerolidrops	2
Tincture of muskdrops	2
Carminegr.	
Ammonia waterfl.dr.	

Melt the cacao butter and wax, add olive oil. stir in the carmine first dissolved in the ammonia, add the volatile oils and tincture, and form into sticks.-D.

С.

Carminegr. 112				
	r of ammoni			
dis	solve about.		fl.oz. 1	l or 2
Rub	intimately	with	powdered	talcum

(av.oz. 11) till dry; rub with this vehicle. Olive or sweet almond oil.....201 parts

The latter two should be first melted together.

III.—Pink:
Zinc oxide
Rismuth submitrate

Bismuth subnitrate	.av.oz.	2 <del>]</del>
Asbestos, powder	.av.oz.	3†
Sweet almond oil, about	fl.oz.	1
Camphor	. av. oz.	÷
Oil of peppermint		
Ess. bouquet extract	fl.dr.	2
Eosin	gr.	5

......av.oz. 24

#### IV.-Black:

А.

B.

Soot	av.oz. 2
Sweet almond oil	
Cacao butter	av.oz. 6
Perfume	sufficient
<b>T</b> 1 . 1 . 1 1 1 . 1 . 1	· · · · · · · · · · · · · · · · · · ·

The soot should be derived from burning camphor and repeatedly washed with alcohol.

The soot should be triturated to a smooth mixture with the oil; then add to the melted cacao butter, add the perfume, and form into sticks.

Lampblack, best	 	av.oz.	1
Cacao butter	 	av.oz.	6
Oil of neroli	 	.fl.dr.	21
36 1	 .1	1	11

Melt the cacao butter, add the lampblack and while cooling make an intimate mixture, adding the perfume toward the last.

С.	
Lampblack	av.oz. 🛔
Olive oil	fl.oz. 24
Cacao butter	av.oz. 34
White wax	av.oz. 4
Oil of rose	drops 6
Oil of bergamot	drops 2
Tincture of musk	drops 1

Triturate the lampblack to a smooth mixture with the olive oil, melt the wax and cacao butter, add the oily mixture, then the volatile oils and tincture, and form into sticks.

#### V.-Brown:

A brown paint may be prepared according to either of the formulas of the preceding, substituting finely levigated burnt umber, sienna or similar earth for the lampblack.

# Depilatories.

Depilatories are preparations for removing hair. They are usually in the form of n powder, which should be in impalpable conTHE STANDARD FORMULARY.

dition. The main or active ingredient is usually a sulphide or sulphhydrate of one of the alkalies or alkaline earths, although the older depilatories were made with caustic alkalies. In using these depilatories they should be made into thin paste with water, applied in a thin layer to the skin, allowed to remain a few minutes and then scraped off with a blunt instrument, when the hair will have softened sufficiently to remove without pain.

Too long contact of depilatories with the skin should be avoided, as they are liable to cause erosions and even ugly sores. To avoid any bad after-effect, the skin should be thoroughly cleansed and then anointed with a bland oil.

I. Prepare sulphuretted baryta (barium sulphide) by making heavy spar (natural barium sulphate) and charcoal into a stiff paste by means of linseed oil, forming this mass into cylindrical rolls and subjecting to the heat of a coal fire. The dark gray coke, after pulverizing, is then made up as follows:

Crude sulphuretted		
Zinc oxide		
Starch	gr.	60

With the aid of water this powder is converted into a soft paste, and applied to a hairy skin in a layer as thick as a straw. After drying (about ten minutes), the pellicle is scraped off with a paper knife, or similar blunt instrument, and with it the hair. The face should be washed clean and anointed with some bland oil.

Ordinary barium sulphide may be used in place of the sulphuretted baryta.

II.	
Sodium sulphhydrategr.	100
Slaked limegr.	80
Starch	20
Lime waterfl.dr.	4

When using apply this like the paste formed in the preceding formula.

Sodium sulphhydrate is prepared by supersaturating at ordinary temperature a solution of sodium hydrate of spec. grav. 1.35 (made from 1 av. ounce of caustic soda and 2 fluidounces of water), and then setting aside the well-closed jar for several days in a cold, dark place, when the crystals formed may be

removed and preserved in a well-closed vial, protected from the light. III. Sodium sulphhydrate.....gr. 100 Chalk......gr. 300 Make into a paste with water and use like No. I. IV. Sodium sulphhydrate.....gr. 130 Slaked lime.....av.oz. Starch.....av.oz. 1 Use like the preceding. V. Barium sulphide.....gr. 80 Precipitated chalk.....gr. 400 Use like the preceding, removing in 3 or 4 minutes. The barium sulphide should be absolutely dry. VI. Orpiment......gr. 120 Slaked lime......gr. 360 Use like the preceding. VII. 60 Orpiment.....gr. Slaked lime.....gr. 300 Starch......gr. 180 Use like the preceding. VIII. Quicklime.....gr. 120 Sodium sulphide......gr. 240 Orris root, powder.....gr. 40 Rub the necessary portion of this powder into a thin paste with water, and apply as directed in formula 1. IX. Calcium sulphide.....gr. 120 Glycerin.....fl.dr. Orris root powder.....gr. 120 Oil of lavender.....drops 5 Oil of ylang ylang.....drops Camphor water.....fl.dr. Make a smooth paste and use as directed in formula 1. Х. Strontium sulphide.....g. 300 Zinc oxide.....gr. 100 Menthol .....gr. Mix intimately, reducing to very fine powder.

In using this preparation, make a paste with water and apply as in No. 1.

Strontium sulphide has the advantage over

barium sulphide of being non-poisonous and Shaving Cream. over almost all other depilatory agents of not evolving hydrogen sulphide.

#### XI.

Barium sulphidegr.	120
Starch	200
Orris root, powder gr.	200

Make a paste with water and use as in formula I.

# NIL.

Charcoalgr. Quicklimegr. Sodium carbonategr.	80
Glycerin	1

This is applied to the skin for ten or twelve days, when the latter assumes a rose tint and the hairs may be extracted.

#### XIII.

Iodine collodion. Part I, may be employed as a depilatory. In using apply once daily for about 4 days, when the film may be removed and the hair will come off with it.

# Liquid Soaps.

Liquid soaps are solutions of soap in alcohol, water, glycerin, etc., put up in attractive forms for cosmetic or medicinal purposes. Most preparations of this kind are put up under the title "liquid glycerin soap."

## I.

I'otassa soap, whiteav.oz.	11
Glycerin	
Simple syrupfl.oz.	71/2
Alcoholfl.oz.	4
Oil of bergamotfl.dr.	1
Oil of sassafrasdrops	40
Oil of cassiadrops	20
Oil of rose geraniumdrops	20
Oil of wintergreendrops	20
Oil of clovesdrops	10
Oil of citronelladrops	10
Oil of mirbane or bitter almonds. drops	10
Tincture of musk fl.dr.	1
Art II is a different of the	C1

Mix, allow to stand a few days, and filter. -D.

#### П.

Potassa soap, whiteav.oz.	11
Glycerin	16
Alcoholfl.oz.	4

Mix, add the perfumes of the preceding mixture, allow to stand a few days, and filter. -D.

I. Lard	.av.oz. 14
Caustic potassa	av.oz. 2
Water.	
Perfume	to suit
<b>AF</b>	

Met the lard in a porcelain vessel over a salt water bath: dissolve the potassa in the water, and run the lye, thus formed, very slowly into the melted grease, stirring thoroughly all the time, until saponification is complete.

A pearly appearance can be given to the "cream," which is simply a soft soap, by long trituration in a mortar with a little alcohol, say 2 fluidrams to each pound of the soap.

Bitter almond oil may be used as a perfume for the "cream." Only a very minute proportion is required. A few drops dissolved in the alcohol used as above will suffice.

Glycerin should be added to this cream to retain it in a permanently soft condition.

II.	
Castile soap, white	av.oz. 3
Rose water	
Sweet almond oil	fl.oz. $1\frac{1}{2}$
Cacao butter	
Tincture of benzoin	fl.dr. 3
Oil of rose geranium	drops 3
Oil of bitter almond	
Glycerin	sufficient

Dissolve the soap in the water by the aid of water-bath heat, add the sweet almond oil and cacao butter previously melted together, then, while still warm, incorporate the tincture, oils and sufficient glycerin to give the proper creamy consistence.

# Shaving Powder.

1.	
Soap, powderav.oz.	10
	875
Starchgr.	875
Sodium carbonate, puregr.	128
Oil of bergamotdrops	36
Oil of lemondrops	36
Peru balsamdrops	18
	18
Tincture of muskdrops	
Mix well, reducing to fine powder.—	·H
II.	
Soap, powderav.oz.	12
Sodium carbonateav.oz.	11
Starchav.oz.	27
Orris root, powdergr.	-
	25
Oil of bergamotdrops	
Instead of the orris root the same w	veight

of powdered quillaja and a very little oil of orris may be used. An addition of glycerin will render the powder milder in use.

# Manicure or Finger-Nail Cosmetics.

Different preparations of tin have been used successfully for cleansing and polishing finger nails, probably on account of their detergent and astringent qualities. The use of tin oleate has been highly recommended as imparting a splendid luster to the nails, and when colored with a little carmine, giving to them a fine roseate tint. The oleate is prepared as follows: To a solution of white castile soap in warm water 1 av.ounce to the pint, gradually add a 10 per cent solution of tin chloride until it ceases to produce a precipitate. The insoluble substance formed, after being washed and dried, is tin oleate. It is a soft solid, and is used without further preparation, unless, as stated, it be tinted with carmine. It may be perfumed if desired.

Another substance which is used as a nail powder is pure tin oxide, perfumed with oil of lavender, and tinted with carmine. It is applied either by rubbing it in on to the nail with the finger, or with a nail polisher covered with leather.

Still another polish for finger nails is tin stearate. It is superior to the oleate, being stiffer and thus nicer to use. It may be prepared like the oleate by precipitation, using solutions of sodium or potassium stearate and tin chloride. This may be tinted with carmine if desired. If a cheaper preparation is wanted, it can be mixed with equal parts of zinc oxide.

Another suitable powder is the following: Pumice stone, very fine powder.av.oz. 2

Talcum, powder.....av.oz. ½ Mix well. Add 15 gr. of carmine if desired, as well as some suitable perfume.

Cuttle-fish bone in very fine powder is also employed for polishing the nails.

The following is employed as a varnish or polish after the application of powder:

Paraffin waxgr	60
Chloroformfl.oz.	2
Oil of rosedrops	3
	1.1

Polish the nails, apply the varnish, then rub with chamois skin.

This preparation is employed as a nail wash: Oxalic acid ......gr. 30 Rose water.....fl.oz. 1

Mix and make solution.

Apply to the discolored nails by means of soft leather or flannel with friction.

Citric acid or acetic acid may be substituted for oxalic acid in the above.

The following ointment is employed for softening the nails, curing hang nails, etc.:

Petrolatum.....av.oz. 1 Castile soap, white, powder.....gr. 60 Oil of bergamot or other flavoring oil......sufficient

White petrolatum should be preferred as it will make a nice appearing preparation.

This should be applied at night and the fingers covered with gloves.

# SECTION III — PREPARATIONS FOR THE HAIR, SCALP, AND MUSTACHE.

#### Shampoo Liquids.

These are applications to the head for cleansing purposes, to remove dirt, dandruff, etc., from the scalp and hair. They should be applied freely and rubbed in thoroughly until considerable lather is formed, which latter should be removed by means of a large quantity of water. The "Sea Foam Liquids," which follow are very similar:

L

Potassium carbonateav.oz.	1
Boraxav.oz.	1
Distilled waterfl.oz.	33
Min and discolve	

Mix and dissolve.

II.

Soft or g	T	e	e	n	-	0	a	p	١.			,	2		1		 i,	3	w.	oz.	14
Potassiu	n	ı	c	a	r	b	o	ñ	a	te	e	ù		 	.,	.,		a	v.	oz.	25
Alcohol																			fl.	oz.	3
Water																					

Dissolve the potassium carbonate in the water and add the remaining ingredients.

#### III.

Potassium	ca	rł		)I	1	at	e										a	v. (	oz.	1
Ammonia	W	a	te	1	1						ŝ						1	A.(	oz.	132
Tincture o	f	ca	n	t	h	a	n	d	le	s			2				.1	A.,	dr.	6
Bay rum					ŝ												4	fl.(	oz.	4
Alcohol						1	1					ĥ	4				.4	A.4	öz.	4
Water	÷	•			•	•	•	•		•	•	•			,	•	.1	fl.o	oz.	6

Dissolve the potassium carbonate in the water, and add the remaining ingredients-



IV.

Potassium carbonate.....av.oz. 1 Distilled water .....fl.oz. 33 Mix and dissolve.

÷

V.

White castile soap, in shavings.av.oz.	1
Waterfl.oz.	
Potassium carbonategr.	30
Boraxgr.	120
Cologne waterfl.oz.	2
Bay rumfl.oz.	2

Dissolve the soap in the water by the aid of heat, add the other ingredients, and dissolve.

## VI.

Ammonium carbonategr.	120
Potassium carbonate av.oz.	1/2
Tincture of cantharidesfl.dr.	4
Waterfl.oz.	8
Bay rumfl.oz.	8

Dissolve the salts in the water and add the other ingredients.

## VII.

Potassium carbonateav.oz Ammonium carbonateg	
Boraxav.o.	. 1
Spirit of soapfl.oz	. 1/2
Bay rumfl.oz	. 4
Distilled waterfl.oz	. 32

· Mix and dissolve.

# VIII.

Boraxgr.	
Ammonium carbonategr.	60
Glycerinfl.oz.	
Waterfl.oz.	
Rumfl.oz.	12
. Bay rumfl.oz.	8

Mix and dissolve.

#### IX.

White castile soapav.oz.	2
Potassium carbonate av.oz.	1/2
Potassium carbonateav.oz. Waterfl.oz.	8
Alcoholfl.oz.	
Tincture of quillajafl.oz.	
Oil of lavenderdrops	

Dissolve the soap and potassium carbonate in the water and add the other ingredients.

## X.

Tincture of quillajafl.oz.	10
Cologne waterfl.oz.	
Glycerin fl.oz.	
Fluid extract of pilocarpusfl.dr	4
Quinine sulphategr.	30
Orange flower water, enough to makefl.oz.	32

Dissolve the quinine in the cologne and tincture of quillaja with the aid of heat; then add the remaining ingredients and filter if necessary.

This may be put up under the title "tonic shampoo."

# Sea Foam Liquids.

The difference between these and the preceding class of preparations is not a well defined one, and in fact, the difference is largely in the matter of application or use, the shampoos being employed in liberal quantities and rubbed in vigorously to produce a copious lather, which will then require a large amount of water for removal. In the case of sea foams, a more or less volatile alkali, ammonia, for example, usually forms the principal ingredient, which foams but slightly, and the hair may be cleansed by rubbing with a wet towel.

#### I.

Ammonia waterfl.dr.	4
Glycerinfl.oz.	1
Spirit of soapfl.oz.	1
Alcoholfl.oz.	2
Oil of bergamotdrops	20
Water, enough to make fl.oz.	16

#### II.

		•	•					e	ιt	a	n	0	b	ır	a	n	ur	oni	Ammo
. 2	fl.oz.	į,						į,					J					ol.	Alcohe
. 1	fl.oz.	1		2		i.	į,		Ļ	ċ.					į.		÷.	rin	Glycer
																			Rose v

## III.

Spirit of soapfl.oz.	7
Glycerinfl.oz.	21/2
Rumfl.oz.	2
Spirit of lavenderfl.oz.	2
Alcoholfl.oz.	14
Rose waterfl.oz.	8
Vanillingr.	1%
Oil of wintergreendrops	2
Sandalwood, powdergr.	

Mix, allow to stand for 2 days, and filter. -D.

## IV.

Ammonia. water	1
Tincture of cantharidesfl.dr.	4
Tincture of capsicumfl.dr.	4
Alcohol	16
Waterfl.oz.	16
Potassium carbonateav.oz.	1/2

Mix and dissolve.

<b>v</b> .	
Tincture of arnica fide	1
Tincture of cantharidesfl.dr.	2
Ammonio motor A dr	ŝ
Ammonia waterfl.dr.	8
Alcohol	8
Distilled waterfl.oz.	0
VI.	
Glycerin	1
Ammonia water fl.oz.	2
	16
Water, enough to makefl.oz.	32
VII.	
	16
Bay rumfl.oz.	
Alcohol fl.oz.	8
Glycerin fl.oz.	8
Tincture of cantharidesfl.oz.	1
Ammonium carbonategr. 8	00
Mix and dissolve.	
VIII.	10
Alcoholfl.oz.	
Waterfl.oz.	
Cologne water fl.oz.	1
Ammonia waterfl.oz.	1
IX.	
Fluid extract of quillajafl.oz.	4
Glycerin	2
Cologne waterfl.oz.	4
Alcoholfl.oz.	8
Rose waterfl.oz.	12
X.	
Boraxgr. 2	990
	8
Coumarin sugargr. • Honey, clarifiedav.oz.	1¥
Tincture of quillajafl.dr.	12,4
	12
Rumfl.dr.	
Alcohol	4
Orange flower water	31/2
Rose waterfl.oz.	21
Dissolve the borax and sugar in the wa	aters,
add the remaining ingredients and filter.	
This is known by the name honey wat	
This is known by the name noney wat	er.
XI.	•
Eggs	3
Rose water fl.oz.	27
Spirit of soapfl.uz.	2
Potassium carbonate	150
Ammonia waterfl.dr.	8
Coumarin sugargr.	8
Oil of rosedrops	2
Oil of bergamotdrops	2
Oil of rose geranium drop	1
Oil of bitter almondsdrop	1

Beat the eggs thoroughly, mix with the rose water, add the other ingredients, and strain.—D.

# Shampoo Paste, Cream or Jelly.

Many shampoo preparations are now put up in the form of pastes or jellies. Many of

these are known by the name "egg shampoo," but some of these preparations do not contain any egg, but are merely a perfumed soft soap. Examples of shampoo pastes are given herewith, some containing egg, some being without it. I.

Castile soap, whiteav.oz. 4	
Curd soap, powder av.oz. 2	
Potassium carbonateav.oz. 1	
Honey	

# Perfume to suit.

Make a homogeneous paste by heating with a sufficient quantity of water.

#### II.

Ammonia water	.fl.dr. 3
Cologne water	.fl.dr. 3
Alcohol	.fl.oz. 5
Water	. fl.oz. 5
Whites of eggas many as	s desired

The whites of egg (about two) are thoroughly beaten up previous to being mixed with the water and water of ammonia; the remaining ingredients are added in their order and the whole stirred briskly.

III.

White castile soap, in shavings av.oz.	
Ammonia waterfl.oz.	2
Bay rum, or cologne waterfl.oz.	1
Glycerin fl.oz.	
Waterfl.oz.	

Dissolve the soap in the water, by means of heat; when nearly cold, stir in the other ingredients.

# IV.

V.

Borax							av.oz.	2.
Glycerin				• •			. tl. oz.	1
Rum						• •	. fl. oz.	10
Bay rum	<b>.</b> .						.fl. oz.	10
Whites of egg.	•	••	•••	• •	• • •	••	<b></b>	2

Incorporate the borax in fine powder with the glycerin and add the bay rum and rum gradually and with constant stirring to the mixture. The previously well-beaten white of egg is added lastly, and the whole stirred thoroughly until an even mixture results.

Castile soap, white	av.oz. 4
Potassium carbonate	
Water	fl.oz. 6
Glycerin	fl.oz. 2
Oil of lavender flowers	drops 5
Oil of bergamot	. drops 10

To the water, add the soap, in shavings,



and the potassium carbonate, and heat on a water bath until thoroughly softened; add the root on a filter or pack in a funnel and perglycerin and oils. If necessary to reduce to colate the alcohol through it; mix this proper consistency, more water may be added. percolate with the oily minture, and add the

#### Shampoo Powders.

Examples of powdery mixtures are herewith given, which may be dispensed in small boxes or in envelopes, each package being sufficient for about one shampoo.

L.

I

Borax, powder	.av.oz. 1
Sodium carbonate, powder	.av.oz. 1
Camphor, powder	
Oil of rosemary	
This is sufficient for one quart	of water.
I.	
Visnau mountum	

Borax, powderav.oz.	3
Sodium carbonate, driedav.oz.	6
Quillaja, fine powderav.oz.	3
Denferments and and a	

Perfume to suit.

#### III.

Borax, powder	.av.oz.	3
Camphor, powder		
Cochineal, powder		
Oil of rosemary		
MGa anall	-	

Mix well.

This may be put up in half-ounce packages, each of which is sufficient for one pint of water.

# Hair Oils. (Huile Philocome.--Huile Antique.)

Hair oil may be prepared from any of the bland, fixed, non-drying oils such as olive, mustard, rapeseed, peanut, or benne oil, also the first two oils by gentle warming and add from liquid petrolatum, and from a mixture of castor oil and alcohol. These mixtures must be rendered pleasantly odorous by the addition of suitable perfume. Frequently hair oil is colored red by the use of alkanet root or of its coloring constituent, alkannin.

Hair oil in its usual yellow condition is frequently dispensed under the name "bear's oil"; if colored red, it is often known as " rose oil."

I.

Castor oil	fl. oz.	4
Alcohol	fl. oz.	26
Tincture of cantharides	fl.oz.	2
Oil of lavender	fl dr.	1
Oil of rosemary	fl. dr.	1
Oil of cloves	. fl.dr.	2
Oil of bergamot		4
Alkanet root, powder	gr.	120
22	•	

Mix the oils in a bottle; put the alkanet cantharides tincture.

II.

Castor oil	.fl.oz.	- 8
Alcohol	.fl.oz.	24
Oil of bergamot		
Mix well.—H.		

III.

Olive or benne oil	fl.oz. 32
Burdock root, fresh	av.oz. 4
Castor oil	fl.oz. 2
Oil of bergamot	fl.dr. 2
Oil of rose geranium	fl.dr. 1
Alkannin or alkanet root	sufficient

Digest the olive or benne oil with the burdock root for about one-half hour at a moderate heat, then decant the clear liquid, add the other oils, and color, if desired, with alkannin. Alkanet may be employed instead of the latter and may then be added to the burdock root during digestion.

This preparation, as well as the following, is known as "Burdock Root Hair Oil,"

IV.	
Olive oil	.fl.oz. 27
Benzoinated oil	.fl.oz. 3
Alkannin	gr. 8
Chlorophvll	gr. 40
Oil of bergamot	drops 30
Oil of lavender flowers	drops 8
Oil of rose	drops 8

Dissolve the alkannin and chlorophyll in the other ingredients. If not clear, filter. -D.

V. This preparation and the following two are known as "Macassar Oil."

Peanut or olive oil	fl.oz. 32
Alkannin	
Oil of bergamot	drops 45
Oil of lemon	drops 15
Coumarin	gr. 1
Mix and dissolve. $-D$ .	

VI

1.	
Cocoanut oilfl.oz.	4
Castor oilfl.oz.	3
Alcohol	7
Oil of lavender flowersfl.dr.	1
Oil of bergamotdrops	
Oil of rose geraniumdrops	
at to start and a start and add to a	

Melt the cocoanut oil, and add it to the castor oil dissolved in the alcohol. Shake

.

well together and add the volatile oils. On	
cooling, the mixture acquires a crystalline ap-	Oil of bergamot
pearance, characteristic of cocoanut oil.	Oil of bitter orangedrops 30
This preparation is known as "cocoanut	Oil of neroli, petalsdrops 80 Oil of petit graindrops 50
oil " hair dressing.	Oil of rose geraniumdrops 30
	VI.
VII.	The second se
Castor oilfl.oz. 16	Oil of rose geranium
Alcohold.oz. 3	Oil of clovesdrops 50
Oil of nutmeg, essentialdrops 30	Peru balsamdrops 50 Heliotropingr. 15
Oil of rosemarydrops 10	
Oil of sweet marjoram	Dissolve the latter in a little warm olive of
Oil of nerolidrops 10 Oil of rosedrops 20	before adding the volatile oils and balsam.
Tincture of muskfl.dr. 1	VII.
Alkanetsufficient to color	Heliotropingr. 8
	Coumaringr. 1
VIII.	Oil of orris, liquiddrop 1
Cassia buds, bruisedav.oz. 11/4	Oil of rosedrops 16
Alkanet, bruisedav.oz. 14	Oil of bergamotdrops 32
Olive oilfl.oz. 32	VIII.
Oil of cinnamonfl.dr. 2	Coumaringr. 1
Oil of rosedrops 10	Oil of lemondrops 16
Oil of bergamotdrops 20	Oil of bergamotdrops 48
Oil of bitter almonddrops 5	
Mix the olive oil with the cassia buds and	IX.
alkanet, macerate in a warm place for 3 days,	Coumaringr. 1
agitating occasionally, filter, and add the	Oil of bitter almondsdrops 2 Oil of cassiadrops 2
other oils.	Oil of lavender flowersdrops 32
other ons.	Oil of lemondrops 48
Perfumes for Hair Oils and Pomades.	Oil of bergamotdrops 80
a sub-set of the set of the set of the set of the set of the	x. *
The following mixtures may be employed	Coumaringr. 2
for perfuming oily mixtures which are in-	Oil of wintergreendrops 2
tended to be used as hair oils:	Oil of clovesdrops 4
I.	Oil of cassiadrops 4
Oil of lavender flowersfl.oz. 1	Oil of lavender flowersdrops 16
Oil of rosemaryfl.oz. 1	Oil of lemondrops 48
Oil of clovesfl, dr. 2	Oil of bergamotdrops 72
Oil of cassia,fl.dr. 1	XI.
11.	Oil of lemonfl.oz. 1
	Oil of bergamot fl.dr. 215
Oil of bergamotfl.oz. 21/2	Oil of clovesfl.dr. 1/2
Oil of lemonfl.oz. 1 Oil of clovesfl.dr. ½	Oil of orangefl.dr. 12
Oil of orangefl.dr. 1/2	Oil of cinnamondrops 20
Oil of cinnamondrops 20	Oil of bitter almonddrops 10
Oil of bitter almondsdrops 10	Hair Pomades or Pomatums.
111.	These preparations are made with various
Oil of bergamotfl.dr. 7	substances such as lard, beef marrow, cacao
Oil of rosedrops 50	butter, wax, cocoanut oil, petrolatum, cer-
Oil of rose geraniumdrops 30	
Oil of clovesdrops 80	esin, lanolin, castor oil, olive, cottonseed oil
AND YON THE COMPANY AND AND ANY STATUS	etc. To obtain a good product the various
IV.	fatty ingredients must be in perfectly fresh
Oil of bergamotfl.dr. 4	condition.
Oil of sandalwooddrops 80	These fatty bodies should be rendered
Oil of orris, liquiddrops 80	pleasantly odorous by the addition of per-
Oil of clovesdrops 30 Oil of rosedrops 16	fumes or mixtures of various oils, tinctures,
on or together the together to	I same at animate of thirden and mineral

.

•

•

etc. In some of the formulas given below, the perfume is mentioned; in such as specify no perfume, the scents or perfumes under the preceding title may be employed.

Pomades may be colored red or pink by means of alkanet root or alkannin.

Some formulas for hair pomades mention water as an ingredient. This is employed for cheapening purposes.

In combining the ingredients of pomades, the less fusible fats, like wax or spermaceti, should be melted first, the lard, petrolatum, or fixed oil should then be added, and the whole allowed to become nearly cold before incorporating the perfume.

I. Yellow wax.	av.oz.	4
Cottonseed o	ilfl.oz.	20
Lard	av.oz.	5
Mix by fusion	n, stir until cold, incorpor	ating

perfume with the mixture during cooling. II.

Yellow wax	.av.oz. 2
Castor oil	fl.oz. 6
Sweet almond oil	fl.oz. 1
Olive oil	fl.oz. 4
Benzoinated lard	fl.oz. 3

Melt the wax at a gentle heat, add the oils and lard, stir till all is melted, allow to cool, stirring constantly till hard. While it is cooling any desirable perfume may be incorporated.

# IH.

Lardav.oz.	24
White waxav.oz.	
Boraxgr.	
Distilled water, warmfl.oz.	

Melt the wax, add the lard, allow to cool, and then stir with a broad spatula or wooden paddle until the mixture has thickened. Now add the borax dissolved in the water, and continue stirring until the fatty mixture becomes brilliantly white and foam-like. This may be perfumed as desired.—D. IV.

Cacao butter	av.oz.	4
Lard, benzoinated		
Mix by fusion and stir occasion	onally	until
cool.—D. modified.	-	

This may be perfumed as desired. V.

Lanolinav ( Lardav.		
Benzoinated oilfl.	oz.	6
Melt the lard and lanolin, add the c	oil,	sti
ntil cool and add mitable perfume -	<b>_</b> D	

VI.

Lard, benzoinated	av.oz. 18
Beef tallow	av.oz. 2
Cacao butter	av.oz. 2
Orange flower water	fl.dr. 12
Oil of bergamot	fl.dr. 8
Oil of lemon	fl.dr. 1
Oil of citronella	drops 30
Oil of rose geranium	drops 30
Tincture of musk	drops 5

Melt lard, tallow, and cacao butter together, incorporate the water, and when nearly cold add the remaining ingredients. --H.

#### VII.

Expressed oil of nutmegav.oz.	1/2
Lardav.oz.	25
Beef tallow	11
Yellow waxav.oz.	134
Cinnamonav.oz. Clovesav.oz.	34
Clovesav.oz.	X
Lemon peel, freshav.oz.	11/2
Benzoinav.oz.	1/2
Alkanet rootav.oz.	1/2
Oil of bergamotfl.dr.	4
Oil of citronellafl.dr.	1

Mix the cinnamon, cloves, lemon peel, benzoin, and alkanet, reduce to coarse powder, add to the nutmeg oil, lard, wax, and tallow previously melted together, maintain the whole at a water bath temperature for three hours, strain, allow the fine particles present to subside, decant the clear liquid, and add the volatile oils.—II.

## Castor Oil Hair Pomade.

I.	
••	

Castor oilav.oz.	16
White waxav.oz.	4
Oil of bergamotfl.dr.	3
Oil of lavender flowersdrops	30
Benzoic acidgr.	

Melt the wax, add the castor oil, mix well and when nearly cold add the remaining ingredients.

## II.

Castor oilav.oz.	16
Petrolatumav.oz.	41/2
Yellow waxav.oz.	21/2
Melt the wax, add the petrolatum and	l oil,
أسمع ماطعنانية أوام والمعمس معانية لي	

and when nearly cold add suitable perfume. III.

Wax, white or yellowav	.oz. 3
Castor oil av	.oz. 5
Cottonseed oilav	. oz. 2
State of the state of the second second	

Melt the wax, add the other ingredients, r and stir until cool. Suitable perfume may now be added.

I	v	

Spermaceti	gr.	800
White wax		
Castor oil		
Oil of rosemary	.fl.dr.	1
Oil of verbena	.fl.dr.	1
Oil of bergamot	.fl.dr.	1
Tincture of curcuma	.fl.dr.	1
Malt the way and cnermonati	add th	

Melt the wax and spermaceti, add the castor oil, and stir in the perfume and tincture.

# Cocoanut Oil Hair Pomade.

Lardav.oz.	- 3
Cocoanut oilav.oz.	12
Ceresin, white and odorlessav.oz.	8
Boraxgr.	150
Distilled water, warm fl.oz.	

Prepare like the preceding.-D.

## Crystal Hair Pomades.

Under this heading are grouped hair pomades which are made to assume a crystalline appearance.

I	•

Castor oilav.oz.	17
Olive or peanut oilav.oz.	12
Spermacetiav.oz.	4
Oil of ylang ylangfl.dr.	5
Oil of rosedrops	8
Oil of bergamotdrops	8
Oil of nerolidrops	5
Oil of rose geraniumdrops	
Oil of bitter almond drop	1
Heliotropingr.	1

Fuse the first three ingredients together and add the perfume before it has congealed.

The pomade appears to best advantage in transparent glass jars and in order that it may appear as coarsely crystalline as possible, allow the congealing to go on as slowly as possible by placing the filled jars in warm water, and allow the mixture to stand undisturbed for 6 hours.—D. II.

Castor oilav.oz.	16
Spermacetiav.oz.	8
Oil of bergamotfl.dr.	8
Oil of verbenafl.dr.	
Oil of lavender flowersfl.dr.	14
Oil of rosemaryfl.dr.	1/2
Benzoic acidgr.	

Melt the spermaceti, add the castor oil, then the other oils and acid, and allow the whole to cool very slowly and undisturbed.

## Marrow Hair Pomades.

Under this heading are included a number of hair pomatums known by this name and which usually contain beef marrow.

#### I.

Beef marrow	av. 07 8
Beef suet	.av.oz. 4
Yellow wax	.av.cz. 1
Castor oil	.av.oz. 4
Oil of bergamot	fl.dr. 2
Oil of lemon	fl.dr. 1
Oil of orange	fl. dr. 1

Melt the wax, suet, and marrow, strain, allow to cool somewhat, and add the volatile oils.

# II.

Beef	marrow	•										•		•			.av.oz.	4
Lard	••••	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	.av.oz.	12

Melt together, strain, and perfume as desired.-D.

# III.

Beef marrow	.av.oz.	19
Peru balsam		
Oil of cinnamon	fl. dr.	25
Oil of bergamot	fl.dr.	115
Tincture of cantharides	fl.dr.	1
Alcohol	.fl.dr.	6
Melt the marrow, add the	other in	gredi-

ents, strain, and stir until solidified.-H.

This has been known as "Dupuytren's pomade."

#### IV.

The following has also been known as "marrow pomatum:"

Lard	16
Suet	8
Oil of lemonfl.dr.	2
Oil of bergamotfl.dr.	
Oil of clovesdrops	40

Mix the lard and suet by fusion, allow to cool, incorporate the oils, and stir until solid.

# Bear's Grease.

A number of hair pomades are known by this title. It is almost needless to state that none of the preparations bearing this title are made with any ingredients from the animal which furnishes the name.

L		
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Beef marrow	av.oz. 8
Lard	av. oz. 24
Oil of lemon	fl.dr. 6
Oil of rose	drops 15
Oil of bergamot	
Oil of cinnamon.	drop 1
Coumarin	

Mix the marrow and lard by fusion, strain, allow to cool somewhat, add the other ingredients and stir frequently until solid.—D.

Beef marrowav.oz. 1	
Spermacetiav.oz.	1
Cacao butterav.oz.	1
Mix by fusion and perfume to suit	[.

### III.

Lardav.oz.	8
Veal suetav.oz.	8
Olive oilfl.oz.	
Compound tincture of benzoinfl.dr.	
Melt the lard and suet add the olive	oil

and thoroughly incorporate the tincture.

## Anti-Kink Hair Pomade.

Beef suet.	av.oz. 16
Yellow wax	av.oz. 2
Castor oil	av.oz. 2
Benzoic acid	дт. 10
Oil of lemon	fl.dr. 1
Oil of cassia	drops 15
Mix the suet and wax, ad	d the castor oil

and acid, allow to cool somewhat, and incorporate the other oils.

This is used for taking the kinks out of and straightening the hair.

# Bandolines.

These are nuccilaginous preparations used by ladies for application to the hair before the process of "frizzing." The object in employing them is to cause the hair to remain in curl for a longer period of time.

Usually these preparations are perfumed; if containing oil of rose, they are known as "rose bandoline"; if oil of bitter almonds, "almond bandoline," etc.

I.

Gum tragacanthgr.	120
Waterfl.oz.	
Alcoholfl.oz.	2
Oil of rosedrops	5

Leave the gum tragacanth in the water over night. In winter the mixture should be kept in a warm place. When the gum is thoroughly disintegrated, strain the mucilage with pressure through a cloth and add it to the oil of rose dissolved in the alcohol. Any other essential oil may be substituted for that of rose. The preparation may be tinted pink or red by the addition of solution of carmine.

If a thicker preparation is desired, more tragacanth may be added. II.

Quince seed, bruised......gr. 180 Water.....fl.oz. 16 Macerate at a temperature just short of boiling, with frequent agitation, until a thick mucilage is formed; strain and add 2 fluidounces of good cologne water in which 30 grains of salicylic acid has been dissolved, or 60 grains of borax may be substituted for the salicylic acid. The borax if used should be dissolved in the mucilage. Instead of cologne as a perfume oil of rose dissolved in alcohol may be used.

III.

Irish	n	10	20	s		 								av.oz.	4	
Water	٢.	•	•	•							•		•	.fl.oz.	16	

Boil and strain; when cold add 2 ounces of cologne and preservative agent as in the preceding.

IV.

Tragacanthav.oz.	经
Glycerinfl.oz.	1
Rose waterfl.oz.	
Diluted alcoholfl.oz.	11/2

Macerate the gum in the glycerin and water until thoroughly softened, strain forcibly through muslin, and add the diluted alcohol containing some perfuming agent in solution.

v.

Tragacanthgr.	150
Rose waterfl.oz.	
Fuchsingr.	8
Oil of rosedrops	20
Alcoholfl.dr.	

Macerate the tragacanth in rose water until softened, and strain forcibly through muslin; dissolve the oil and fuchsin in the alcohol and add this to the preceding mixture.—H. modified.

VI. Bandoline in powder is usually powdered tragacanth perfumed, by trituration, with a suitable flavoring volatile oil.

# Curlique or Hair Curling Liquid or Oil.

I. For keeping hair in curl:

Borax powderav.oz.	1
Gum arabic	<b>3</b> 0
Spirit of camphorfl.dr.	6
Water, warmfl.oz.	

Dissolve solids in warm water, and when cool, add the camphor.

Wet the hair with above and roll on papers as usual, let dry, unroll, and form into ringlets.

II. For curls without papers:	I.
Potassium carbonate	Salicylic acid
In using, moisten hair, adjust them loosely,	Oil of nerolidrop 1
and they will curl upon drying.	Waterfl.oz. 4
III.	Mix the acid and oils with the glycerin and
Potassium carbonategr. 100 Water of ammoniafl.dr. 1 Glycerinfl.dr. 8 Alcoholfl.dr. 10 Rose water, enough to makefl.oz. 16 Min tearther and discuss. Mointer the	alcohol, add the water and filter.         II.         Pilocarpine hydrochlorategr.         3         Quinine muriategr.         Sulphur, precipitatedgr.         9         Peru balsamgr.         300
Mix together and dissolve. Moisten the	Beef marrowav.oz. 3
hair; adjust it loosely, when it curls upon	111.
drying.	Salicylic acidgr. 30
IV.	Borax, powdergr. 15
Gum arabicdr. 1 Sugardr. 1 Rose wateroz. 2	Peru balsam
Mix and dissolve. Moisten the hair with	
the solution at bedtime; roll in twists on	Mix well, making a smooth ointment.
paper.	IV.
V. Potassium carbonategr. 120 Cochineal, powdergr. 30 Water of ammoniafl.dr. 1 Glycerinfl.dr. 2 Alcoholfl.oz. 1½ Distilled waterfl.oz. 18 Oil of rosedrops 5	Resorcingr. 240         Castor oilfl.oz. 5         Alcohol
Digest with agitation for a week, then	Betanaphthol
decant or filter. The hair is moistened with	Lanolingr. 360 Lard, benzoinatedgr. 120
it and then loosely adjusted. The effect	VI.
occurs as it dries.	Resorcin
VI. Resingr. 16 Alcoholfl.oz. 16	Etherfl.dr. 1 Olive oilfl.dr. 1 Alcoholfl.oz. 6
Mix, dissolve and add suitable perfume.	To be well shaken and applied to the scalp
	by a bristle brush about twice as large as the ordinary mucilage brush, by insinuating it
Remedies for Dandruff.	between the locks of hair. The head to be
Dandruff requires treatment mainly for	well washed with soap and warm water twice
the reason that it may be either the precursor	a week.
or the cause of baldness.	VII.
Most of the remedies given below require that the scalp be first cleansed with a sham- poo, although some dandruff remedies com- bine detergent, or cleansing, and curative	Potassium hydrategr. 18           Carbolic aciddrops 25           Cocoanut oilgr. 240           Lanolingr. 240
properties.	Dissolve the potassium hydrate in a small
The remedies mentioned are to be applied	amount of water and add the other ingre-
once, or possibly twice, daily.	dients.
The various hair tonics, hair oils, and hair	Label: Rub into the scalp twice a day.
manually an event of the second test for teld	A sume is sumally affected in from one to these

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pomades, as well as the remedies for baldness, are also useful for the cure of dand-uff. Multiplication months.

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VIII

Borax, powder	gr.	60
Sulphur	gr.	120
Glycerin		
Spirit of camphor	.fl.oz.	1
Soap liniment	.fl.oz.	2
Water	. fl. oz.	12

Dissolve the borax in the water; triturate the sulphur with the glycerin, mix the two, and add the remaining ingredients.

Directions: Apply to the scalp two or three times a day.

IX.

Betanaphtholgr.	360
Glycerinfl.oz.	2
Oil of wintergreendrops	30
Oil of rosedrops	15
Oil of nerolidrops	15
Terpineoldrops	15
Oil of orangedrops	5
Heliotropingr.	11/2
Tincture of quillajafl.oz.	30

Wash the hair, dry it, apply the above lightly with a sponge, tie a cloth over the head, and allow it to remain for one-half hour.-D.

#### X.

Carbolic acidfl.dr.	L
Bay rumfl.oz. 32	3
XI.	
Chloral hydrategr. 120	0
Glycerinfl oz. 1	
Bay rum, enough to make fl.oz. 10	5
XII.	
Chloral hydrate gr. 30	0

Bay rumfl.oz.	2
Glýcerinfl.oz.	2
Tincture of cantharidesfl.dr.	
Rose waterfl.oz.	8

# Remedies for Baldness and Falling Out of Hair.

While the formulas given below are intended for alopecia or baldness and loss of hair, it should also be understood that the formulas immediately preceding (" Remedies for Dandruff "), and those that follow this heading, may usually also be employed to strengthen or tone the hair follicles and thus cure or prevent alopecia.

I. Baldness is frequently an infectious disease, caused by the promiscuous use of combs and brushes, more especially in tonsorial establishments. Cure is possible when treatment is commenced reasonably early, and small sponge every third day.

carried out with systematic energy. The scalp should be, daily for 6 to 8 weeks, later on less frequently, thoroughly rubbed for 10 minutes with a lather of good tar soap, then washed with lukewarm water, and finally with cold water, and partially dried; then with a mixture of:

Mercuric chloride	
Waterfl.oz. 5	
Cologne waterfl.oz. 2	
Glycerinfl.oz. 2	

The scalp should then be rubbed with alcohol containing 1/2 per cent of betanaphthol; completely dried, and then thoroughly saturated with a mixture of purified lard or lard oil having 2 per cent of salicylic acid and 3 per cent of tincture of benzoin, After a short time the hair will begin to appear, and will, in most cases, soon resume its former vigor and growth. Mercuric chloride (corrosive sublimate) appears to promote the growth of the hair, as has been observed where it has been used as an antiseptic dressing.

With reference to the use of pomade on the hair, it is recommended that all pomade be carefully removed by a washing before it becomes rancid, but that the scalp be not washed without applying pomade afterward. For pomade, animal is preferable to vegetable or mineral fats; the following is recommended:

## П.

Pilocarpine hydrochlorate gr.	1
Petrolatumgr. 1	
Lanolingr. 4	
Oil of lavender flowersdrops	8

T	T	T.	
1	T	1.	

Carbolic aciddrops	30
Tincture of nux vomicafl.dr.	2
Tincture of cantharidesfl.dr.	1/2
Tincture of cinchona compound.fl.dr.	8
Cocoanut oil, enough to makefl.oz.	4

To be rubbed in the scalp with a small sponge twice daily.

# IV.

Cantharidingr.	1
Acetic etherfl.dr.	
Alcoholfl.oz.	
Castor oilfl.oz.	
Oil of lavender flowersdrops	15

The preparation is to be applied with a After applying a few times the head should be washed, as an accumulation of the liniment may cause the other ingredients in order named. The too much irritation.

This preparation is known as linimentum ommended to stimulate the growth. crinole.

V.

••	
Oleate mercury	av.oz. 1/2
Oil of almond, sweet	fl.oz. 21/3
Oil of rose	. drops 2
Oil of rose Oil of bergamot	. drops 2
VI.	

Tincture of cantharides	fl.dr.	2
Acetic acid	fl.dr.	2
Bay rum	fl.oz.	4
Infusion of tea (1:10), enoug	h	
to make	fl.oz.	32

Apply once every one or two days.

## Hair Tonics.

The preparations known by the general title of hair tonics are intended as tonic to hair and scalp to prevent and cure dandruff, baldness, dryness of the hair, etc.

Some of these preparations contain cinchona or quinine; some contain sulphur and lead salts; others contain fixed oils like benne or cocoanut oil, and others contain still other ingredients.

They are known by such titles as "hair restorer," " hair restorative," " hair invigorator," "hair vigor," "hair promoter," "hair grower," "hair lotion," "hair renewer," " hair wash," " hair renovator," " hair balsam," etc.

# Quinine and Cinchona Hair Tonics.

These preparations are usually dispensed under the titles "quinine hair wash," "quinine hair tonic," and "eau de quinine."

They may be colored red, if desired, by means of red saunders.

I.

Quinine sulphate	gt.	20
Bay rumfl.	ďr.	4
Glycerin,fl.	dr.	4
Tincture of cantharidesfl.	dr.	2
Tincture of capsicumfl.	dr.	2
Water, enough to makefl.	oz.	16
Mix and dissolve		

#### II.

Quinine sulphate	zr. 20
Glycerinfl.	oz. 1
Cologne waterfl.	oz. 2
Bay rumfl.	oz. 2
Rose waterfl.	oz. 11

Rub the quinine with the glycerin and add addition of fluid extract of jaborandi is rec-

T		
I	1	1.

Quinine sulphate	gr.	30
Acetic acid.	.fl.dr.	2
Resorcin	gr.	120
Water	fl.oz.	
Oil of eucalyptus	.fl.dr.	2
Tincture of cantharides		3
Alcohol	.fl.oz.	12

Mix all, dissolve by agitation, and filter. IV.

Quinine sulphategr.	20
Tincture of cantharidesfl.dr.	3
Fluid extract of jaborandi fl.dr.	2
Alcoholtl.oz.	2
Glycerinfl.oz.	5
Bay rumfl.oz.	
Rose water, enough to makefl.oz.	16

The quinine should be dissolved in the alcoholic liquids by warming slightly, then the other ingredients added, and the whole filtered.

#### V.

Tincture of red cinchonafl.oz.	1
Tincture of cantharidesfl.dr.	2
Glycerinfl.oz.	2
Compound spirit of lavenderfl.dr.	2
Alcohol, enough to makefl.oz.	16
V1.	

Quinine sulphategr. Diluted sulphuric acidm.	
Alcoholfl.oz.	2
Glycerinfl.oz. Rose waterfl.oz.	14 14

Triturate the quinine with the acid, gradually adding the water until solution is effected; then add the remaining ingredients and filter.

#### VII.

Orris rootav.oz. Clovesgr. Nutmeggr.	
Red saundersgr.	20
Quinine sulphategr. 4 Cologne waterfl.oz.	1
Glycerinfl.oz. Oil of lavender flowersdrops	4
Oil of rose geraniumdrops Oil of nerolidrops	8 4
Water, Alcoholof each, sufficie	nt

Mix the orris, cloves, nutmeg and saunders, reduce to moderately fine powder, and

percolate with a mixture of one volume of	Lead and Sulphur Hair Promoters.
water and three of alcohol, so as to obtain	Hair preparations containing sulphur and
29 fluidounces of percolate. To the latter	lead salt not only act as alleged curatives, but
add the remaining ingredients and dissolve	also act as dyes or coloring agents, deepen-
<b>b</b> y agitation.	ing the color of the hair. The sulphur and
N™III.	lead combine upon exposure to light to form
Fluid extract of pale cinchona. fl.dr. 1	black lead sulphide. For this reason such
Tincture of cantharidesfl.dr 2	preparations should be kept darkened by
Glycerinfl.oz. 1	means of an adherent wrapper. The public
Bay rumfl.dr. 4 Rose water, enough to makefl.oz. 20	should be told lead preparations are not
_	harmless.
	1
Chloral hydrate	Lead acetateav.oz. 34 Sulphur, precipitatedav.oz. 1
Tincture of cantharidesfl.dr. 2 Tincture of cinchonafl.dr. 4	Sulphur, precipitatedav.oz. 1 Tincture of cantharidesfl.dr. 4
Glycerinfl.oz. 1	Glycerin
Orange flower water,	Alcoholfl.oz. 4
Rose water of each, equal parts,	Oil of citronellafl.dr. 1
to makefl.oz. 16	Oil of bergamotdrops 30 Water, enough to makefl.oz. 64
Brush into the roots of the hair every morn-	
ing, and rub in a little lanolin at night.	Dissolve the oils in the alcohol, add the
X.	glycerin and tincture of cantharides, and mix
Tincture of rhatanyfl.dr. 1	with the water, then add the sulphur and the
Tincture of cantharidesfl.dr. 4	acetate of lead.
Spirit of lavenderfl.dr. 2 Glycerinfl.oz. 2	II. Here is a formula which makes a prep-
Glycerinfl.oz. 2 Quinine sulphategr. 15	aration without sediment. It should be kept
Alcohol, enough to makefl.oz. 16	from the light.
Mix, dissolve and filter.	
XI.	Lead acetate
Carbolic acidfl.dr. 1½	Glycerinfl.oz. 8
Tincture of nux vomicafl.oz. 1	Alcohol,
Tincture of cinchonafl.oz. 31/2	Oil of lemonfl.dr. 1 Oil of bitter almondsdrops 15
Tincture of cantharidesfl.dr. 2	Oil of clovesdrops 15
Cologne water. fl.oz. 7 Castor oilfl.oz. 4	Rose waterfl.oz. 16
	Water, enough to makefl.oz. 64
Shake well before using.	Dissolve the lead acetate and sodium hypo-
XII.	sulphite, each separately in two pints of hot
Alcohol fl.oz. 9	water, and mix the solutions. Dissolve the
Spirit of soap	oils in the alcohol, adding 16 fluidounces of
Tincture of cinchonafl.oz. 2 Tincture of cantharidesfl.dr, 1	water, and rub with 120 grains of magnesium
Peru balsamfl.dr. 5	carbonate in a mortar; filter and add the fil-
Oil of bergamotfl.dr. 2	trate to the other mixture, now incorporate
Oil of orangefl.dr. 2	the glycerin, and the remainder of the water.
Oil of rose geraniumfl.dr. 1	
Mix and filter.	
XIII.	Sulphur, precipitatedav.oz. 1 Lead acetateav.oz. 1
Quinine sulphategr. 15	Tincture of cantharidesfl.dr. 4
Cologne water	Glycerinfl.oz. 2
Rumfl.oz. 312 Alcoholfl.oz. 4	Water, enough to makefl.oz. 32
Glycerin	Dissolve the lead salt in a portion of the
Rose waterfl.oz. 21	water, and add the remaining ingredients.
Alkanninsufficient to color	This preparation is known as Gen. Twigg's
Mix, dissolve and filterD.	Hair Restorer.
	1

IV.	V
Precipitated sulphurgr. 60	
Lead acetategr. 60 Bay rumfl.oz. 4	
Bay rum fl.oz. 4 Iamaica rum fl.oz. 2	
Jamaica rumfl.oz. 2 Sodium chloridegr. 60	
Rose waterfl.oz. 4	
Glycerin	
V.	
Sulphur, precipitatedav.oz. 1	tw
Lead acetateav.oz. 1	v
Glycerin	
Rose water, enough to makefl.oz. 32	
VI.	
Precipitated sulphurav.oz. 1	
Lead nitrateav.oz. 34	
Tincture of cantharides	
Glycerin	
Alcohol fl.oz. 4	na
Oil of lavender flowers	v
Oil of bitter almondsdrops 15	v
Water enough to makefl.oz.64	
Dissolve the lead salt in the water and the	
oils in the alcohol, mix and add the remain-	
ing ingredients. Lead nitrate has the advan-	
tage over the acetate of being odorless.	
Hair Tonics Containing Oil.	
I.	Μ
Castor oilfl.oz. 16	I.
Alcohol	
Tincture of cantharidesfl.dr. 5	
Oil of bergamotfl.oz. 1	
Oil of rosedrops 10	
Red saundersenough to color	
Mix, macerate for several days, agitating	
occasionally and strain.	ho
II.	
Carbolic acidfl.dr. 2	П
Tincture of cantharidesfl.dr. 2	
Tincture of nux vomicafl.oz. 1	
Compound tincture of cinchona.fl.oz. 4	
Cologne waterfl.oz. 4	
Cologne water	
Cologne waterfl.oz. 4 Cocoanut oil, enough to make. fl.oz. 16	
Cocoanut oil, enough to make. fl.oz. 16 III.	II
Cocoanut oil, enough to make. fl.oz. 16 III.	11
Cocoanut oil, enough to makefl.oz. 16 III. Castor oilfl.oz. 16 Tincture of cantharides fl.oz 2	II
Cocoanut oil, enough to makefl.oz. 16 III. Castor oilfl.oz. 16 Tincture of cantharides fl.oz 2	II
Cocoanut oil, enough to makefl.oz. 16 III. Castor oilfl.oz. 16 Tincture of cantharides fl.oz 2	
Cocoanut oil, enough to makefl.oz. 16 III. Castor oilfl.oz. 16 Tincture of cantharidesfl.oz. 2 Tanningr. 120 Oil of bergamotfl.dr. 2 Oil of clovesfl.dr. 2	
Cocoanut oil, enough to makefl.oz. 16 III. Castor oilfl.oz. 16 Tincture of cantharidesfl.oz. 2 Tanningr. 120 Oil of bergamotfl.dr. 2 Oil of clovesfl.dr. 2 Oil of lavenderfl.dr. 2	
Cocoanut oil, enough to makefl.oz. 16 III. Castor oilfl.oz. 16 Tincture of cantharidesfl.oz. 2 Tanningr. 120 Oil of bergamotfl.dr. 2 Oil of lavenderfl.dr. 1/2 Oil of rosemaryfl.dr. 1/2	
Cocoanut oil, enough to makefl.oz. 16 III. Castor oilfl.oz. 16 Tincture of cantharidesfl.oz. 2 Tanningr. 120 Oil of bergamotfl.dr. 2 Oil of clovesfl.dr. 2 Oil of lavenderfl.dr. 2	
Cocoanut oil, enough to makefl.oz. 16 III. Castor oilfl.oz. 16 Tincture of cantharidesfl.oz. 2 Tanningr. 120 Oil of bergamotfl.dr. 2 Oil of lavenderfl.dr. 1/2 Oil of rosemaryfl.dr. 1/2	
Cocoanut oil, enough to make. fl.oz. 16 III. Castor oilfl.oz. 16 Tincture of cantharidesfl.oz. 2 Tanningr. 120 Oil of bergamotfl.dr. 2 Oil of clovesfl.dr. 1/2 Oil of lavenderfl.dr. 1/2 Oil of rosemaryfl.dr. 1/2 Oil of rosemaryfl.dr. 1/2 Nicoholfl.oz. 48 IV.	
Cocoanut oil, enough to make. fl.oz. 16 III. Castor oilfl.oz. 16 Tincture of cantharidesfl.oz. 2 Tannin	
Cocoanut oil, enough to makefl.oz. 16         III.         Castor oilfl.oz. 16         Tincture of cantharidesfl.oz. 2         Tanningr. 120         Oil of bergamotfl.dr. 2         Oil of lavenderfl.dr. 2         Oil of rosemaryfl.dr. 1/2         Alcoholfl.oz. 48         IV.         Castor oilfl.oz. 51/2         Tincture of cantharidesfl.dr. 6         Oil of bergamot	I
Cocoanut oil, enough to make. fl.oz. 16 III. Castor oilfl.oz. 16 Tincture of cantharidesfl.oz. 2 Tanningr. 120 Oil of bergamotfl.dr. 2 Oil of clovesfl.dr. 2 Oil of lavenderfl.dr. 1/2 Oil of rosemaryfl.dr. 1/2 Oil of rosemaryfl.dr. 3/2 Alcoholfl.oz. 48 IV. Castor oilfl.oz. 51/2 Tincture of cantharidesfl.dr. 6	II IV

U	r	
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<i>v</i> .
Tincture of cantharidesfl.dr.4Tincture of capsicumfl.oz.1Cocoanut oilfl.oz.4Castor oilfl.oz.fl.oz.Oil of nutmeg, essentialfl.dr.1Cologne water, enough to make.fl.oz.16
Shake well before using, and apply once or
wice daily.
Sweet almond oilfl.oz. 2         Ammonia water, concentrated .fl.oz. 2         Chloroform
This preparation is well known under the name Erasmus Wilson's Hair Lotion.
VII.
Castor oilfl.oz. 2 Oleo-balsamic mixturefl.oz. 3 Tincture of cantharidesfl.dr. 3 Benzoic acidgr. 120 Tannic acidgr. 90 Alcoholfl.oz. 8
Mix and filter.
Miscellaneous Hair Tonics.
I.
Oleo-balsamic mixturefl.oz.       4         Glycerinfl.oz.       5         Rose waterfl.oz.       20         Tincture of cantharidesfl.dr.       4         Ammonium carbonateav.oz.       1
Mix, shake thoroughly, let stand for one
our, and filter.
Ι.
Tincture of cantharidesfl.dr.3Tincture of capsicumfl.dr.1Ammonia waterfl.dr.2Glycerinfl.dr.1Cologne water, enough to make.fl.oz.16
II.
Tincture of cantharidesfl.dr. 4 Glycerinfl.oz. 4 Bay rumfl.oz. 1115
V. Salicylic Hair Tonic:
Salicylic acid

uidounces of water; when reaction ceases. Alcohol, enough to make...., fl.oz. 16 add the remaining ingredients, and filter.

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V. 'Pilocarpine Hair Wash.'' Pilocarpine nitrate or muriate....gr. 4 Tincture of cantharides.....fl.dr. 4 Soap liniment, enough to make. fl.oz. 16

Apply to the scalp once daily.

See also next formula.

VI.

Pilocarpine muriate	gr.	4
Oil of rosemary		
Oil of bergamot		
Oil of lavender flowers		
Stronger water of ammonia		
Tincture of cantharides		
Castor oil	fl.oz.	2
Alcohol, enough to make		

The pilocarpine and oils should be dissolved in some of the alcohol, then the tincture and the ammonia added, and enough alcohol to make up the required volume.

The scalp should be thoroughly cleansed by washing with warm soap and water containing a little borax, and dried; the tonic is then to be applied with a small sponge.

## VII.

Benne oil	. fl. oz.	16
Lime water	.fl.oz.	24
Oil of bergamot	.fl.oz.	2
Oil of lemon	.fl.dr.	1
Oil of lavender flowers		
Oil of cloves	.drops	15

Mix the benne oil and water thoroughly and add the remaining ingredients.

This hair preparation is known by the misapplied appellation of "Lime Juice and Glycerin."

## Hair Dyes.

These preparations are generally made by the use of silver, lead and bismuth salts, the first mentioned being usually the most effective and most expeditious. Some of these preparations require the use of a second or mordanting agent, others are made without the use of the latter. In the case of the twobottle preparations, the two vials are put up together in a neat pasteboard box.

The usual color desired is black, although brown is also largely in demand. The dyes that produce a black color will produce a brown by appropriate weakening or dilution.

Before using any dye, the hair should be freed from grease by washing with an alka-

by the abundant use of water, subsequently drying thoroughly.

The dye should be distributed among the hair by means of a tooth brush and occasional combing with a new comb: contact with the scalp should be avoided.

I. - A.

Pyrogallic acid	dr. 1
Alcohol	fl.dr. 4
Water. distilled	
· · · · ·	

B.

Silver nitrate	dr. 1
Water, distilled	
Ammonia water	enough

After dissolving the silver nitrate in the water, gradually add water of ammonia, stirring constantly, until the brown turbidity produced has vanished and the liquid appears colorless. Then add

Water, distilled, enough to make.fl.oz. 1

A large excess of ammonia tends to produce a brownish dye. Various shades of brown may be produced by increasing the amount of water in the silver solution. It should be remembered that the hair must, previous to treatment, be washed with warm water containing sodium carbonate, well rinsed with clear water, and dried.

# II.

Dissolve the two salts in 2 fluidounces of water and add ammonia water, constantly stirring, until the precipitate at first formed is dissolved and the liquid becomes clear and transparent. Make another solution of

Pyrogallic acidgr.	
Acetic acidfl.dr.	2
Alcoholfl.dr.	12

Apply the pyrogallic solution to the hair with a stiff brush (a tooth brush will answer), taking care not to wet the scalp. When partially dry, apply the silver solution in the same manner, using another brush. For a brown dye, decrease the amount of pyrogallic acid; as little as one-half grain to the fluidounce is sometimes used. Sometimes the acetic acid is omitted, and in most of the commercial hair dyes diluted alcohol is used as a solvent of the acid. Copper sulphate line carbonate or soap, removing the latter | might possibly be substituted for the nitrate.

The use of the copper salt is to avoid the dull reddish tint imparted to hair by the use of silver nitrate alone.

III. Make two solutions as follows:

Bismuth subnitrategr. 200	)
Waterfl.oz.	3
Nitric acid.gr. 420 or sufficient to dissolve	e
Use heat to effect solution also.	

Tartaric acidgr.	150
Sodium bicarbonategr.	168
Waterfl.oz.	32

When effervescence of the latter has ceased, mix the cold liquids by pouring the latter into the former with constant stirring. Allow the precipitate to subside, transfer it to a filter or a strainer, and wash with water until free from the sodium nitrate formed, as this salt would be an unnecessary impediment to the operation of the dye. Now allow the magma to drain until its weight is reduced to at least 44 av. ounces. This can be readily determined nel, if both have been previously weighed. Transfer the magma, which consists of bismuth tartrate, to a dish, and dissolve it by the addition of sufficient stronger water of ammonia.

Next dissolve 100 grains of sodium hyposulphite in 3 fluidounces of water, and mix the two liquids. The total volume of the product should be about 7 or 8 fluidounces, which would make the solution contain about 10 per cent of bismuth tartrate, the product j The addition of 1 fluidounce of glycerin is fluidounces and filter. calculated to make it more effective in coloring the hair, as this ingredient prevents entire hair previously cleaned with soap and water drving up of the constituents, and thus favors and dried. a continuation of the decomposition.

Should it be desired to produce a jet black, a this may be accomplished (after the dye given above has first been applied and allowed to dry) by the application of a solution of an! alkaline sulphide or sulphuret. necessary that the latter salt should be absoscalp.

e 1 .

IV.

Silver nitrate	.av.oz.	1
Ammonia water	fl.oz.	2
Sodium carbonate, pure	gr.	180
Distilled water		

Dissolve the silver salt in 8 fluidounces of water and ammonia water until the precipitate first formed is redissolved; dissolve the sodium salt in this solution, add enough water to make 12 fluidounces, and after standing a few days, decant the clear liquid.

As a mordant use:

Pyrogallic acidgr.	144
Alcoholfl.oz.	- 4
Waterfl.oz.	8

Mix and dissolve.

This is used as a brown dye.

Silver nitrate	gr.	480
Copper nitrate	gr.	- 90
Copper nitrate Distilled water	. fl.oz.	8
Ammonia water		

Dissolve the two salts in the distilled water without removing it from the filter and fun- and add the ammonia water until the liquid becomes a clear fluid.

> In using, apply to the hair carefully with a tooth brush, after thoroughly cleansing the hair, and expose the latter to the rays of the sun.

VI.

v.

Silver, metallic	gr.	150
Iron, filings or reduced		
Nitric acid		
Water	. suffic	ient

Mix the first three, allow to stand until disfrom above quantities being nearly 300 grains. solved or nearly so, dilute with water to 4

Apply by means of a tooth brush to the

Lithargeav.oz.	1
Lime, freshly slakedav.oz.	
Starch av.oz.	5

Mix all in fine powder and perfectly dry, It is not and keep in well-stoppered bottles.

This powder is to be made into a thin paste lutely pure, as the commercial sulphuret of or cream with water for use as a black dye or potassium answers well if fresh or undecom- a thin milk for a brown dye. Before using, posed. The application of these dyes and the hair should be freed from grease by means mordants is usually made by means of a tooth- of soap and water, subsequently drying. brush and comb, so as to avoid staining the Now apply the liquid by means of a sponge, brush or the fingers, observing to rub it well into the roots of the hairs, and to pass a comb occasionally through the latter to insure uniform distribution and contact with every part. The hair should be kept in a moistened state during 3 or 4 hours, which can be effected by wrapping about the head a moist cloth or wearing a cap of oiled silk. When the coloring has been effected, remove the powder by washing it out with warm soap and water.

The danger in using this preparation is the possibility of lead poisoning.

VIII. The following is known as "walnut hair oil or dye:"

Green walnut shellsav.oz.	2
Alum	
Olive oilfl.oz.	4

Heat together in a water bath until the water has been completely expelled; then express, filter and perfume.

# Brilliantines.

T

These are preparations intended for application to the mustache and consist of mixture of alcohol, fixed oils and glycerin, with some perfuming agent. They are of two varieties, separable and non-separable, the former separating on standing into two layers. The cause of the separation is the presence of fixed oils other than castor and alcohol, and possibly glycerin or water. The nonseparating kind consists of castor oil in alcoholic solution. If a colored preparation is desired, it may be tinted with saffron tincture, alkanet root, or alkannin.

1.	
Castor oilfl.dr.	4
Sweet almond oilfl.oz.	81/
(leased a dial of the second o	- 73
Glycerin fl.dr.	1 1/2
Jockey club extractfl.dr.	
Alcohol, enough to makefl.oz.	8
II.	
Sweet almond oilfl.oz.	8
Alcoholfl.oz.	4
Glycerinfl.oz.	
Oil of rose geraniumdrops	12
III.	
Honeyfl.oz.	4
Glycerinfl.oz.	2
Cologne waterfl.oz.	2
Alcohol	8
IV.	-
Castor oil	4
Alcobol	
Oil of rose drops	10
Oll of serolidrops	16
Min. and color with tincture of safiron	
sons and only with the cure of samon	•

# v.

V.
Castor oil fl.oz. 6
Alcoholfl.oz. 8
Water
Oil of nerolidrops 10 Oil of verbenadrops 10
Oil of rose geraniumdrops 15
Oil of lemondrops 18
Mix and color with tincture of saffron.
VI.
Castor oilfl.oz. 3 Glycerinfl.oz. 1 Alcoholfl.oz. 10
Perfume to suit.
VII.
Glycerinfl.dr. 2
Castor oilfl.oz. 1
Alcoholfl.oz. 15
Mix and perfume.
VIII.
Glycerinfl.dr. 2
Oleic acidfl.oz. 1
Alcoholfl.oz. 15
Mix and perfume.
IX.
Glycerinfl.oz. 2
Sweet almond oilfl.oz. 8
Alcohol fl.oz. 8
Mix and perfume.
Х.
Veal or beef suetav oz. 4
Spermacetiav.oz. 2
Castor oilav.oz. 12 Oil of bitter almondsdrop 1
Oil of clovesdrops 10
Oil of bergamotdrops 20
Melt the suet and spermaceti, add th

Melt the suet and spermaceti, add the castor oil, and incorporate the flavoring oils, allowing to cool somewhat before adding the latter.

This preparation is more of the nature of a pomatum.

Stick Mustache Pomades. (Stick Pomatum.—Cosmetique.) I.

White wax													.av.oz.	8
Lard					•	•							 .av.oz. 8	3
Oil of bergamot	•	•	•	•	•	•	•	•	•	•	•	• •	 fl. dr. 4	4

Melt the wax and lard together with a gentle heat, stir well as the mixture begins to cool, add the oil just before it is ready to set, and then pour into molds.

Hard pomade is usually cast in little bars or rolls varying in size according to fancy. These bars or rolls are wrapped in well sized IV. paper, and then enveloped in tin foil.

The molds should be of heavy metal, fashioned after the style of bullet molds. They should be chilled by immersion in very cold water just before casting; this will greatly lessen the chances of the pomade adhering to the molds. When only small quantities are made so that it is desirable to avoid the expense of the regular apparatus, paper molds may be substituted. They can be easily made by folding stout manilla or similar paper over a suitable model and securing it with a little mucilage at the edges. One end is turned in; the molds are then secured in an upright position and filled from the end remaining open. When cast in this way, the mold itself usually answers as the inner wrapper.

Stick pomade made as above is, as will be noticed from the recipe, white. It is frequently required to be brown or black. For the former it is colored by the admixture of a sufficient quantity of burnt umber. The umber must first be rubbed to perfect smoothness on a slab or tile with a little of the When black is desired, melted pomade. lampblack is substituted for the umber.

The perfume is, of course, varied at will. When strong smelling oils are used, yellow wax will usually answer as a substitute for the white when the pomade is to be colored. An article much superior in point of perfume to the foregoing may be made by the substitution of flower-scented pomades for the lard.

#### п.

White	wax		•				•		•										•	av	.oz.	6	
Suet.		•••	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	av	7. OZ.	3	

Melt, mix thoroughly, add suitable perfume, and pour into molds. Color as described in No. I.

# III.

White waxav.oz.	4
Beef tallowav.oz.	8
Oil of bergamotfl.dr.	4
Oil of cassiadrops	40
Oil of thyme (white)drops	

A yellow color is produced by tincture of saffron or tincture of turmeric, a brown color by burnt umber in oil, and a black color by animal charcoal ground or triturated in oil.

White waxav.oz.	8
Suetav.oz.	8
Tuberose pomadeav.oz.	
Jasmine pomadeav.oz.	4
Oil of rosesdrops	

First melt the wax, then add the suet, afterward the pomade. When beginning to cool, incorporate the oil of roses and cast into molds.

V. For other mustache pomades, see the next heading.

# Hungarian Mustache Pomade. (Hungarian Mustache Wax.-Pomade Hongroise.)

This is a mixture of gum, soap, wax or spermaceti, and water, with perfume and coloring matter. It is in the form of a sticky or tenacious paste which, when applied to the ends of the mustache, retains the latter in extended fashion.

Owing to the fact that it will become hard and dry when exposed to the atmosphere, it must be preserved and dispensed in wellstoppered wide-mouth bottles.

Wax	.av.oz. 41
White castile soap	.av.oz. 24
Oil of bergamot	
Gum arabic, powder	.av.oz. 21
Water	fl.oz. 4

Dissolve the gum in the water; melt the wax and soap together on a water bath, stir in the solution of gum, and lastly, just before cooling, add the bergamot oil. Color, as required, with burnt umber or lampblack rubbed to perfect smoothness on a slab with a little of the melted wax.

#### II.

I.

Spermacetiav.oz.	1
Ŵax	4
Gum arabic, powderav.oz.	
White castile soap av.oz.	2
Glycerinav.oz.	1
Water	10

The soap should be finely shaved, and it and the gum stirred up with 4 fluidounces of water to a homogeneous paste. The spermaceti and wax should then be heated with the remainder of the water on a water bath, and stirred carefully into the gum and soap paste. Lastly, the glycerin should be added drop by drop. Perfumery may be added to

350

suit the taste; if a brown color is desired, umber should be mixed with the glycerin, and for black, lampblack.

111.

Gum arabic, powderav.oz.	4
White castile soap, powder av.oz.	4
White wax	
Rose waterfl.oz.	4
Oil of bergamotm.	
Oil of sandalwoodm.	40

Triturate the gum with the water to a smooth paste; melt the wax, add the soap, stir in the gummy mixture before cooling, add the oils and color, if desired, as in the preceding formulas.

IV.

White castile soap, powderav.oz.	2
White waxav.oz.	
Mucilage of acaciafl.oz.	6
Distilled waterfl.oz.	5
Glycerinfl.oz.	11/2
Oil of bergamotdrops	12
Oil of lemondrops	6
Oil of rosedrops	6

Triturate the soap with the mucilage previously mixed with the water to a smooth mixture. To this add the wax and glycerin, heat the whole on a water bath, stirring constantly, until the wax is melted, and the mixture is homogeneous. Now, incorporate the volatile oils, also coloring matter, if a colored pomade is desired. For blond pomade, use yellow ocher; brown, burnt umber; and black, lampblack, each previously triturated to a smooth paste with the glycerin.-D.

# SECTION IV-MOUTH PREPARA-TIONS.

#### Tooth Preparations. (Dentifrices.)

Tooth Powders.-These preparations must be reduced to fine powder by trituration and sifting, and the ingredients must also be mixed intimately. The customary ingredients are chalk, orris root, myrrh, cuttlefish bone, soap, pumice, etc.

The name given varies according to composition and according to the fancy of the maker. It may be called "myrrh tooth powder," "saponaceous tooth powder," "camphorated tooth powder," "charcoal tooth powder," "thymol tooth powder,"

powder," " coral tooth powder," "pearl tooth powder," " rose tooth powder," " antiseptic tooth powder,'' " salol tooth powder,'' " violet tooth powder," " aromatic tooth powder," "imperial tooth powder," "crown tooth powder," etc. In each case, the word "dentifrice " may be substituted for " tooth powder."

Tooth powders are usually flavored, the oils of peppermint and wintergreen being the most popular flavors.

Frequently they are also colored with carmine. This must be triturated to a smooth and intimate powder with a portion of the mixture before adding the remaining ingredients.

Tooth Creams and Pastes. - These preparations differ in consistence, the former being rather thin, the latter being a rather hard mass. The former are dispensed in collapsible, the latter in white or opal, jars. Both creams and pastes may be produced from tooth powders by the addition of sufficient glycerin, honey or simple syrup, the first mentioned being preferred on account of its antiseptic property which prevents the preparation from spoiling. The creams are usually made by the use of glycerin, these requiring more of the diluting agent than the pastes. Creams also differ from pastes in almost invariably containing soap, which is usually incorporated in the powdered condition.

Coloring matters and perfumes are added to tooth creams and pastes in the same manner as to tooth powders.

Suitable names for tooth pastes and creams are the following: " Menthol glycerin tooth cream (or paste)," "Castilian tooth cream (or paste)," "Persian tooth cream (or paste)," "cherry tooth cream (or paste)," " creta cream (or paste)," " Oriental tooth cream (or paste)," " saponaceous tooth cream (or paste)," " damask rose tooth cream (or paste)," "eucalyptus tooth cream (or paste), "coca tooth cream (or paste)," " coral tooth cream (or paste)," " salicylated tooth cream (or paste)," " odontine," " rose tooth cream (or paste), '' ''kalodont, '' '' salol tooth cream (or paste)," "thymol tooth cream (or paste)," "violet tooth cream (or "salicylated tooth powder," " quinine tooth | paste)," " dentine," " dentalba," " dental cream (or paste)," "antiseptic tooth cream (or paste)," "carbolated tooth cream (or paste)," "camphorated tooth cream (or paste)," "charcoal tooth paste," "ruby tooth cream (or paste)," "myrrhine tooth cream (or paste)," "Vienna tooth cream (or paste)," etc. The word "dentifrice" may in each instance be substituted, if desired, for the word "tooth" or for the phrase "tooth cream "or "tooth paste."

Tooth Washes or Liquid Dentifrices.— These are preparations made from quillaja or soap, and are colored and flavored. They replace the tooth powders, pastes, creams and soaps.

They may be known by such titles as "eudonto," "dentine," "quillaja tooth wash," "kalliodont," "odontine," "saponaceous tooth wash," "aromatic dentifrice," "dentoline," "antiseptic liquid dentifrice," "almond tooth cream," "Oriental tooth wash," "carbolated tooth wash," etc.

See also under heading " Mouth Washes."

Tooth Soaps.—These differ from tooth pastes in being of still firmer consistence and in always containing soap. The other ingredients are practically the same as are employed in the production of the pastes.

#### Tooth Powder.

1	١.	

Prepared chalkav.oz.	32
Tincture of vanillafl.dr.	
Oil of peppermintfl.dr.	11
Oil of rose geraniumdrops	

Color pink with carmine if desired.

	l	•

Precipitated chalkav.oz.	15
Sugarav.oz.	5
Boraxav.oz.	5
Orris rootav.oz.	5
Cardamomgr.	270

Mix all of these ingredients, previously reduced to fine powder, flavor and color, if desired, with carmine.

#### Ш.

Precipitated chalk	20
Orris root, powderav.oz.	2
Tanningr.	80
Oil of rosedrops	18
Oil of clovesdrops	15
Oil of pimento	2
Tincture of musk drops	30
Carminegr.	8
Alcoholfl.dr.	

Mix the chalk, orris and tannin, thorough any incorporate the carmine, and then add the occorrist and tincture previously mixed with the alco mixed hol.

IV. Cuttle fish, powderav.oz. S Orris root, powderav.oz. S Chalk, precipitatedav.oz. 10 I Oil of lemonfl dr. S Oil of nerolidrops 30 S	8 8 16 4 30
V.	10
Precipitated chalkav.oz. 122 🔳	12
Pumice stoneav.oz. 😫	2
Cuttlefish boneav.oz. 🖆	2
Magnesium carbonateav.oz. I	1
Armenian boleav.oz. I	1
Oil of rosedrops 🚝	3
Oil of geraniumdrops 20 S	20
Oil of clovesdrops 2.♪≤≤	20

Reduce the pumice stone and fish bones and the powder, add the other ingredients and mix well.

#### VI.

Prepared chalkav.oz.	15	<b>_</b> 2
Orris rootav.oz.	5	3
White castile soapav.oz.	E	1
Sugarav.oz.		1
Oil of wintergreenfl.dr.		1

Reduce the chalk, orris root and sugare. It to fine powder, add the oil and mix well.

#### VII.

Chalk, precipitatedav.oz. 1	► _ <b>_</b> 6
White castile soap, powderav.oz.	1
Licorice root, powderav.oz.	1
Magnesium carbonateav.oz.	2

Mix, flavor as desired, and color, if desired, with carmine.

# VIII.

I

Talcumav.oz. 1	12
Cream of tartarav.oz.	1
Burnt alumav.oz.	1
Cochinealav.oz.	1
Oil of peppermintfl.dr.	2

Powder carefully and finely.

# Tooth Cream or Paste.

Cloves, powderav.oz.	
Cinnamon, powderav.oz.	
Orris root, powderav.oz.	
Precipitated chalk	10
Pumice, powderav.oz.	5 2
Oil of clovesfl.dr.	-
Solution of carminesufficient to col=	) ar
Honey sufficient to make pas-	-le

# MOUTH PREPARATIONS.

II.	oils, then the glycerin and water previously
Precipitated chalk	mixed, and triturate until well mixed.
White castile soap, powderav.oz. 4	VIII.
Orris root, powderav.oz. 4 Oil of sassafrasdrops 40	White castile soap, powder av.oz. 81/2
Oil of baydrops 80	Precipitated chalk av.oz. 812
Honey sufficient to form paste	Orris root, powderav.oz. 3
III.	Oil of peppermintfl.dr. 1/2
Orris root, powderav.oz. 8	
Myrrh, powder, av.oz. 2	With the aid of glycerin make a paste.
Pumice, powderav.oz. 8	IX.
Oil of clovesfl.dr. 2 Oil of lemonfl.dr. 2	Salicylic acidav.oz. 1
Oil of rosedrops 30	Precipitated chalkav.oz. 10 Talcum, powderav.oz. 21/2
Solution of carminesufficient to color	White castile soap, powder av. oz. 21/2
Honeyenough to form paste	Pumice stone, powderav.oz. 21/2
IV.	Sugarav.oz. 11/2
Pumice, powderav.oz. 1	Oil of peppermint
Orris, powderav.oz. 4	
White castile soap, powder av.oz. 1/2	With the aid of glycerin make a paste.
Tragacanth, powdergr. 70 Chalk, precipitatedav.oz. 8	X. Honor
Solution of potassafl.dr. 1	Honey
Glycerinfl.oz. 8	Orrisav.oz. 8
Oil of clovesdrops 20	Carmine
Oil of rose	Oil of clovesdrops 30
a second of the second s	Oil of nutmegdrops 30 Oil of rosedrops 30
V.	Simple syrup enough to form a paste
Precipitated chalkav.oz. 15	XI.
White castile soap, powderav.oz. 15 Orris, powderav.oz. 5	
Oil of peppermint fl.dr. 1	Pumice, powderav.oz. 4 Orris, powderav.oz. 4
Oil of cinnamonfl.dr. 1/2	Myrrh, powderav.oz. 1
Carmine	Honey av.oz. 4
Glycerinsufficient to form a paste	Glycerinfl.oz. 4 Spirit of lemonfl.dr. 3
VI.	Spirit of lemonfl.dr. 3 Oil of clovesfl.dr. 1
Precipitated chalk	Oil of rosedrops 16
Pumice, powder	Cochineal coloringsufficient to color
Cinnamon, powderav.oz. 3	XII.
Cloves, powderav.oz. 3	Cream of tartarav.oz. 10
Oil of clovesfl.dr. 2	Sugar of milkav.oz. 10
Honeysufficient	Carminegr. 80
Mix the ingredients and add sufficient	Essence of peppermintfl.dr. 1
honey to form a mass. If a colored prepara-	Mix well and make into a paste with a mix-
tion is desired, carmine or solution of carmine	ture of 3 parts honey and 1 part glycerin by
may be added.	weight.
VII.	XIII.
Chalk, precipitatedoz. 8	Calcium carbonate, precipitated.av.oz. 3
Magnesium carbonatedr. 2	Sugar
Castile soap, white, powdergr. 40 Oil of clovesm. 1	Glycerinfl.dr. 4
Oil of cassiam. 1	Rose waterfl.dr. 12
Oil of sweet orange	Castile soap, white av.oz. 8
Oil of lavender flowers	Alcoholfl.oz, 2 Oil of peppermint. fl.dr, 2
Oil of rose geraniumm. 3	Oil of peppermintfl.dr. 2 Carmine, dissolved in ammoniagr. 60
Glycerin	
	Mix the calcium carbonate, sugar and cream of tartar, and make into a paste with a
23	cream of cartar, and make into a paste with a

mixture of the glycerin and 4 fluidrams of solve the oils in the alcohol. the rose water. lastly incorporate the oil and carmine.

#### XIV.

Precipitated chalkav.oz. 1	6
White castile soap, powder av.oz.	4
Oil of clovesdrops 4	0
Oil of nutmegdrops 4	
Oil of rosedrops 2	

Form into a paste with a mixture of equal parts of glycerin and water.

#### XV.

Precipitated chalkav.oz.	8
White castile soap, powder av. oz.	4
Orris, powderav.oz.	4
Oil of sassafrasdrops	40
Oil of baydrops	8
Honey, enough or aboutav.oz.	13

# XVI.

Orris, powderav.oz.	12
Alum, powderav.oz.	
Prepared chalk	
Cochinealav.oz.	
Potassium bitartrateav.oz.	1
Oil of clovesdrops	40
Oil of rosedrops	40
Rose waterfl.dr.	
Glycerin sufficient to form a ma	ass

#### Tooth Wash.

#### I.

Quillaja, coarse powderav	.oz. 11/2
Cochineal, powder	.gr. 15 <sup>^-</sup>
Glycerinf	.oz. 3
Oil of wintergreend	rops 25
Alcoholff	.oz. 10
Peppermint water, sufficient to	
makeff	.oz. 32

Mix the quillaja with the alcohol and 12 fluidounces of peppermint water, macerate for a few days, add the cochineal, glycerin colation, using the above mixture of alcohol and oil, macerate for another day, agitating and water as a menstruum; to the percolate occasionally and filter, adding the remainder add the honey, and filter. of the water through the filter.

П.

Castile soap, shavingsav.oz.	3
Glycerin	
Alcoholfl.oz.	12
Water, hotfl.oz.	12
Oil of peppermintdrops	40
Oil of wintergreen	60
Oil of clovesdrops	20
Tincture of vanillafl.oz.	1
Cochineal solution	ent
- · · · · · · · · · · · · · · · · · · ·	

add the glycerin and vanilla tincture. Dis- and filter.

Mix both ------Dissolve the soap in the tions, add sufficient coloring to produce + alcohol and the remainder of the water by the desired shade, and after having allowed j aid of heat, add to the previous mixture, and stand for 24 hours, filter through paper \_\_\_\_ III.

Quillaja, powderav.oz.	
Cudbeargr.	1
	-
Heliotropingr.	-
Oil of peppermintdrops	3
Oil of anisedrops	
Alcoholfl.oz.	1
	2

Macerate the quillaja and cudbear with diluted alcohol or extract by percolation, in each case obtaining 30 fluidounces of prod. To this add the heliotropin and oils uct. dissolved in the alcohol, macerate for several days in a warm place, filter if necessary, and add the glycerin.

#### IV.

••	
Quillaja, coarse powderav.oz.	2
Orris, coarse powderav.oz	1/2
Boraxav.oz.	1
Saccharingr.	10
Oil of peppermintfl.dr.	1
Oil of wintergreenfl.dr.	5
Waterfl.oz.	18
Glycerin fl.oz.	2
Alcoholfl.oz.	
Solution of carminefl.dr.	5
Mix, macerate for 7 days, agitating	occa-

sionally, and filter.

V.	
Quillaja av.oz. ?	
Orris rootav.oz. 1	
Canada snake rootav.oz.	
Cloves	ź
Alcoholfl.oz. 10	
Waterfl.oz. 5	
Honeyfl.oz. 3	
The set of the second	

Extract the drugs in powder form by per-

VI

1.	
Thymol	.gr. 30
Oil of wintergreen	l.dr. 1
Oil of peppermint	l.dr. I
Compound tincture of cardamon.	Loz 2/2
Glycerin	1.0Z. 3
Sandalwoodav	V.OZ. 1
Tincture of guillaia	1.dr. 2
Alcoholf	1.0L 19
Water, enough to make	1.0z. 82
Dissolve thymol and oils in alc	obol, add

Dissolve the soap in the hot water, and other ingredients, let stand at least 24 bours

## VII.

White castile soapav.oz. 2
Oil of orange peeldrops 15
Oil of cinnamon drops 10
Water
Alcoholfl.oz. 8
Liquor coccineus, N. F. sufficient to color
Dissolve, mix and filter.

#### VIII.

Alcoholfl.oz. 10	
Waterfl.oz. 12 1	2
White castile soapav.oz. 23	2
Oil of wintergreendrops 20	
Red saunderssufficient	

Dissolve the soap in a mixture of the alcohol and water, add the saunders, flavor with the oil, add enough water to make the liquid measure 30 fluidounces, and filter.

#### IX.

Quillajaav.oz. 3
Star aniseav.oz. 1
Cloves
Cinnamongr. 120
Cudbeargr. 60
Oil of peppermintdrops 12
Diluted alcoholsufficient

Mix the drugs, reduce to powder, and extract by percolation with diluted alcohol so as to obtain 32 fluidounces of product in which the oil is to be dissolved.

#### Х.

Castile soap, white	av.oz.	34
Myrrh, bruised	av.oz.	11/2
Spirit of lemon	,dr.	2
Oil of peppermint	.drops	15.
Oil of star anise	. drops	15
Oil of wintergreen	.drops	5
Glycerin	.fl.oz.	2
Acetic ether	.fl.dr.	2
Alcohol	.fl.oz.	24
Water	.fl.oz.	8
Alkannin or alkanet sufficier	it to co	lor

Dissolve the soap in one-half the alcohol and water mixed; macerate the myrrh with the remainder of the alcohol and water for several days, filter each, mix and add the remainder of the ingredients. If the mixture is to be colored with alkannin, it may be added now; if alkanet is used, it may be added to the myrrh during maceration.

XI.

vder......av.oz. 4 fl.oz. 8 fl.oz. 30 ....drops 20 .drops 20 glycerin and dilute alcohol for three or four days, and filter through a little magnesia previously triturated with the volatile oils. XII.

the state of the s	
Castile soap, whitegr.	270
Glycerinfl.oz.	5
Simple syrupfl.oz.	2
Water,fl.oz.	13
Alcoholfl.oz.	13
Tincture of cardamomfl.dr.	2
Tincture of Canada snakerootfl.dr.	2
Oil of peppermintdrops	25
Oil of wintergreendrops	25
Oil of clovesdrops	6
Oil of cassiadrops	6
Solution of carmine sufficient to co	olor

Mix the soap, glycerin, syrup and water, stir well and add the alcohol. Add the remainder of the ingredients, let stand a few days and filter at a low temperature, so that no soap will afterward precipitate.

# XIII.

Quillajaav.oz.	2
Orris rootgr.	120
Cinnamongr.	120
Cochinealgr.	60
Benzoic acidgr.	
Tanningr.	60
Boraxgr.	60
Oil of wintergreen	30
Oil of peppermintm.	30
Sugarav.oz.	4
Glycerinfl.oz.	2
Alcoholfl.oz.	10
Water fl.oz.	20

Reduce the drugs to powder, add to the remaining ingredients, macerate for at least 7 days, agitating occasionally, and filter.

#### XIV.

White castile soap	av.oz. 2
Oil of peppermint	
Oil of wintergreen	.drops 50
Glycerin	.fl.oz. 2
Water	.fl.oz. 4
Alcohol	
Solution of cochineal, . sufficier	t to color

Dissolve the soap in the alcohol and water, add the other ingredients, and filter.

#### XV.

Quillaja barkgr.	280
Cochinealgr.	10
Oil of wintergreenm.	40
Alcoholfl.oz.	41/2
Peppermint waterfl.oz.	
Glycerinfl oz.	2
Water, enough to makefl.oz.	30

https 20 Mix the cochineal and quillaja with 4 fluidnixture of ounces of alcohol and 6 of water, macerate for 7 days, agitating occasionally; filter, and add the remaining ingredients.

This may be pleasantly modified by the addition of a few drops of either oil of cinnamon or oil of cloves, or both.

# Tooth Soaps.

Precipitated chalkav.oz.	4
Carminegr.	25
White castile soap, powder av.oz.	10
Oil of peppermintfl.dr.	21/2
Alcoholfl.oz.	
Ammonia watersufficie	

Triturate the carmine with a few drops of ammonia water and add the precipitated chalk, mixing intimately. Dissolve the oil of peppermint in the alcohol; add the solution to the soap contained in a mortar and thoroughly incorporate; then add the precipitated chalk, and when the whole is homogeneous, transfer to suitable molds and dry.

# п.

White castile soap, powder av.oz.	10
Talcum, powderav.oz.	4
Pumice stone, powderav.oz.	2
Cuttle-fish bone, powderav.oz.	2
Cochineal, powdergr.	90
Sodium carbonate, driedgr.	180
Diluted alcoholfl.oz.	1
Glycerinfl.dr.	6
Oil of peppermintfl.dr.	2
Rose water suffic	ient

Mix the soap, talcum, pumice and cuttlefish bone, then add the cochineal previously triturated to a fine powder. Having mixed these ingredients thoroughly, add the soda, alcohol and glycerin, stirring well, incorporate the oil, and then add enough rose water to form a mass. Divide into pieces or press in the boxes, and allow to dry.

#### III.

White castile soap, powderav.oz.	10
Tincture of rhatanyfl.oz.	34
Precipitated chalk av.oz.	334
Benzoic acid av.oz.	1/2
Potassium chlorate, powderav.oz.	34
Borax, powderav.oz.	34
Saccharingr.	
Oil of cinnamon sufficient to flat	vor

Make into a hard mass by the addition of glycerin and water, press into tin boxes, and dry.

IV. Talcum, powder.....av.oz. 10 Pumice, powder.....av.oz. ½ Orris root, powder.....av.oz. 2

Mix well and color with carmine if a pink or red color is desired, and with chlorophyll, if a green color is desired, and flavor with a mixture consisting of:

Oil of peppermintfl.dr.	21/2
Oil of sagefl.dr.	
Oil of calamusfl.dr.	1
Oil of thyme, whitefl.dr.	
Coumaringr.	20

Now mix

White cas	ti	1	e	S	oa	4	>,	F	x	55	v	d	e	ŕ				a	v.	.07	5	10	
Alcohol, .	*	*																2	fl.	.03	E.	5	
Glycerin			•	•				•	•	*	•	*	*		*	*	•	*	fl.	07	t,	13	5

Beat together to form a soft paste, and then gradually incorporate the previous mixture of powders. Press the mass into molds, and, after removing the cakes, brush the latter over with tincture of benzoin containing a little oil of peppermint. When dry, cover with tin foil. The mass may also be pressed into tin boxes and allowed to dry in the latter.

# Camphorated Tooth Powder.

I.
Precipitated chalk
Orris root, powderav.oz. 5
Camphorav.oz. 1
11.
Prepared chalk
Orris rootav.oz. 4
Camphorav.oz. 2
Cinnamonav.oz. 1
Reduce all to powder, and mix well.
III.
Prepared chalkav.oz. 16
Camphor av.oz. 8
Cuttle-fish bone av.oz. 4
Myrrh 2
Borax 2
Rose pinkav.oz. 1
Reduce all to powder, and mix well.
Cuttle-fish boneav.oz. 4 Myrrhav.oz. 2 Boraxav.oz. 2 Rose pinkav.oz. 1

# Charcoal Tooth Powder.

Orris rootav.oz.	5
Myrrhav.oz.	5
Charcoalav.oz.	11
Cinchonaav.oz.	

All should be in very fine powder and the whole should be well mixed and finally passed through a fine sieve.

#### 11.

I.

Charcoal					1		*		ż	ŝ	av.oz.	12
Myrrh								÷		-	av.oz.	2
Pale cinchona					•	•		÷			av.oz.	3

Mix well, having first reduced each to fine powder.

#### Harlan's Tooth Paste.

Precipitated chalk
Orris root, powder av.oz. 8
White castile soap, powder av.oz. 2
Borax, powderav.oz. 2
Myrrh, powderav.oz. 1
Honey,
Glycerin
of each sufficient to form a soft paste
Carmina sufficient to color

Perfume to suit.

# Hunter's (John) Tooth Powder.

Cream of tartarav.oz.	12
Alumav.oz. Cochinealav.oz.	21/4
Cochineal	2
Cinnamonav.oz.	1
Sugarav.oz.	4

Mix all, reducing to fine powder. Color, if desired, with carmine.

#### Marshall's or Hudson's Dentifrice.

Chalk, preparedav.oz.	15
Myrrh, powderav.oz.	5
Orris, powderav.oz.	5
Rose pinkgr.	125

Mix well, reduce to fine powder, and sift.

#### Menthol Glycerin Tooth Cream.

Precipitated chalk av.oz. 8
White castile soap, powder av.oz. 4
Magnesium carbonateav.oz. 2
Menthol (dissolved in alcohol),
Solution of carmine,
Glycerinof each, sufficient
Solution of carmine,

Rub the first three ingredients into a paste with glycerin, then flavor and color to suit with the menthol and carmine solutions.

#### Rose Tooth Powder.

Prepared chalk av. oz. 221/2
Sugar of milkav.oz. 8
Orris root, powderav.oz. 11/2
Carminegr. 16
Oil of rosedrops 16

Rub the chalk, orris root and 5 av.ounces of the sugar of milk together in a capacious mortar, and pass the mixture through a No. 80 sieve. Then rub the carmine in the mortar, and gradually add to it, while rubbing, the remaining 3 av.ounces of sugar of milk. To this mixture add the oil of rose, and, after rubbing all well together, add to it about 3 av.ounces of the sifted mixture. Stir this well together and also pass it through the sieve. Finally return all the sifted powder

into the mortar and thoroughly mix the whole of it.

#### Quinine Tooth Powder.

Precipitated chalk	29
Orris rootav.oz.	31/2
Sugar of milkav.oz.	31/2
Saccharingr.	4
Pumice stonegr.	390
Magnesium carbonategr.	390
Tannic acidgr.	300
Quinine hydrochlorategr.	80
Oil of rosedrops	16
Oil of peppermintdrops	80
Oil of ylang ylang drops	5
Oil of bitter almonds, drops	5

Mix all, and reduce to a fine, uniform powder.-D.

## Salicylated Tooth Powder.

Sodium salicylategr. 120
Sodium bicarbonateav.oz. 4
Precipitated chalkav.oz. 16
Myrrhav.oz. 14
White castile soapav.oz. 11/2
Orris rootav.oz. 3
Licoriceav.oz. 2
Oil of wintergreendrops 3
Oil of rose geraniumdrops 30

Reduce the myrrh, soap, orris and licorice to fine powder, mix all the ingredients, and color, if desired, with carmine or solution of carmine.

## Salicylated Tooth Paste.

Precipitated chalk av.oz.	16
White castile soap, powder av.oz.	
Sugar, powderav.oz.	4
Orris, powderav.oz.	4
Pumice, powderav.oz.	11/2
Sodium salicylategr.	
Glycerinfl.oz.	2
Carmine or solution of car-	
mine	lor
Water sufficient to form a m	ass

Mix well and perfume with oil of peppermint, wintergreen or other oil.

#### Saponaceous Tooth Powder.

# I.

I

WI

White castile soap, powder, av.oz. 8
Precipitated chalk
Magnesium carbonateav.oz. 2
Sugar, powderav.oz. 2
Oil of wintergreen sufficient to flavor
Course of the course of the second
Precipitated chalk

cipitated cl	halk	 	,av.oz.	14
ite castile				

Juc China Hi		 	
Dil of wint	tergreen	 drop	os 8

#### Thymol Tooth Paste.

Calcium carbonateav.oz.	
Magnesium carbonateav.oz.	34
Magnesium carbonateav.oz. Orris root, powderav.oz.	3
Thymol /gr.	60

Mix well and make a mass with sufficient of the following mixture:

Gelatin,	I	21	11	e			•	•	•	•				ŝ	•	•		•	+	gr.	70
Glycerin																					
Water	•	•			-	•	•		*	+	•	•	٠	+	•	•	*	*	•	n.oz.	1

Dissolve by the application of a gentle heat.

#### Thymol Tooth Powder.

Precipitated chalk av.oz.	15
White castile soap, powder av.oz.	1
Saccharingr.	10
Thymolgr.	15
Camphorgr. :	30
Vanillingr.	
Oil of rosedrops	6

Rub the camphor and thymol together in a mortar, and warm gently so as to render the mixture liquid; then add the chalk in small portions at a time, reserving about 1 av. ounce; next add the other ingredients, the perfumes being first separately rubbed with the remainder of the chalk.

#### Mouth Washes.

These are preparations intended for cleansing, purifying and deodorizing the mouth, and frequently also for cleansing the teeth; before use, they are usually diluted with water, about one teaspoonful being added to a cupful of the latter. They always contain antiseptic and flavoring constituents, usually also an astringent substance like tannic acid, kino, rhatany, oak bark, etc., and frequently also a coloring constituent.

They are usually dispensed under such names as "prophylactic tooth and mouth wash," "dentifrice elixir," "thymol dentifrice," "salol mouth wash," "aromatic mouth wash," "astringent mouth wash," "chinoline mouth wash," tooth tincture," "mouth essence," "elixir of roses," "violet mouth wash," "rubicreme," "favorite tooth and mouth wash," "mentholated dentifrice," "mentholine tooth wash," eau dentifrice," "Imperial mouth wash," salicylated mouth wash," "arnica tooth wash," "mouth water," etc. L. .

Salolgr. 75
Alcoholfl oz. 16
Solution of cochinealfl.dr. 4
Oil of rose drops 8
Oil of peppermintdrops 15

Dissolve the salol in the alcohol, add the remaining ingredients, and filter.

#### II.

White oak barkav.oz.	216
Rhatany rootav.oz.	1/2
Sassafrasgr.	60
Red cinchona,gr.	180
Cardamom seedsgr.	30
Clovesgr.	30
Ceylon cinnamongr.	20
Oil of wintergreenfl.dr.	1
Oil of anisefl.dr.	1/2
Alcohol,	
Waterof each, suffic	ient

Reduce the solid substances to a coarse powder, and extract by percolation so as to obtain 32 fluidounces of product, using as menstruum a mixture of 3 volumes of water and 5 of alcohol; to the percolate add the two oils.

III. The preparation known by the name "Eau de Botot," is dispensed according to different formulas, as follows:

ha di seconda di second	
Star anisegr.	720
Cassiagr.	288
Clovesgr.	288
Cochinealgr.	72
Waterfl.oz.	
Alcoholfl.oz.	24
Oil of peppermintfl.dr.	14
Oil of rosedrops	10

Mix the drugs, reduce to coarse powder, add the alcohol and water, macerate for 7 days, agitating occasionally, filter, and add the oils. The drugs may also be extracted by percolation as in the preceding formula. B.

Cloves	av. oz. 1/2
Cinnamon	
Star anise	
Rose water	A.oz. 31/2
Alcohol	fl.oz30
Cochineal, powder	gr. 48
Cream of tartar	gr. 72
Oil of peppermint	fl.dr. 114

"mentholine tooth wash," "eau dentifrice," "Imperial mouth wash," "salicylated mouth wash," "eau angelique," "carbolated tooth wash," "arnica tooth wash," "mouth water," etc. Beduce the cloves, cinnamon and anise to coarse powder, macerate in the rose water and alcohol for 24 hours, add the remaining ingredients, macerate for another 24 hours, agitating frequently, and filter.

#### MOUTH PREPARATIONS.

#### C.

Star anisegr.	360
Cloves	
Galangagr.	360
Ceylon cinnamongr.	360
Cochinealgr.	144
Tannic acidgr.	72
Peru balsamgr.	72
Oil of peppermintfl.dr.	21/2
Oil of rose	15
Oil of nerolidrops	8
Oil of orrisdrop	1
Coumarin sugargr.	15
Waterfl.oz.	8
Alcoholfl.oz.	24

Reduce the drugs to powder, mix all the ingredients, macerate for 8 days, agitating occasionally, and filter.—D.

This preparation may also be made by extracting the mixed and ground drugs by percolation, by means of a mixture of one volume of water and 3 of alcohol, so as to obtain 32 fluidounces of percolate; to the latter, add the acid, balsam, oils and sugar, and dissolve.

#### IV.

Kino, powderav.oz.	5
Tincture benzoinfl dr.	1
Tincture tolufl.dr.	1
Tincture vanillafl.dr.	3/2
Oil of peppermint,fl.dr.	1
Oil of anisefl.dr.	1/2
Oil of cinnamonfl.dr.	1/2
Alcoholfl.oz.	32

Mix, macerate for 7 days, agitating occasionally, and filter.

This preparation is known as Eau de Mialhe.

#### V.

Myrrh, powderav.oz.	1
Borax, powderav.oz.	1
Red saundersav.oz.	
Sugarav.oz.	
Cologne waterfl.oz.	
Alcoholfl.oz.	
Waterfl.oz.	9

Mix, macerate for several days, agitating occasionally, and filter.

#### VI.

Chinoline tartrategr.	150
Oil of peppermintfl.dr.	
Alcoholfl.oz.	
Waterfl.oz.	28

Add a teaspoonful to a tumblerful of water and use as a mouth wash.

# VII.

Oil of sagefl.dr.	236
Oil of lemonfl.dr.	14
Alcoholfl.oz.	61/2
Water	
This surgestion has been been as I	

This preparation has been known as Eau de Salvia.

## VIII.

Oil of sassafras (preferably		
" Safrol ")	d.dr.	2
Oil of pinus pumilio	l.dr.	1/2
Oil of curacao	l.dr.	1/2
Oil of wintergreend		8
Oil of calamusd	rops	10
Oil of anised	rops	2
Oil of rose geranium		2
Oil of vetivertd	lrops	2
Betanaphthol	.gr.	20
Solution of saccharin	fl.dr.	11/2
Chloroform	A.dr.	1/2
Glycerin	fl.oz.	234
Alcohol		8
Calcium phosphatea	V UZ.	**
Water, enough to make	A.oz.	32

In the alcohol dissolve the oils, naphthol, and chloroform. Add to the solution the glycerin and solution of saccharin, and gradually add water until the product measures 32 fluidounces. Allow the mixture to stand some time, frequently shaking; then mix it intimately with the calcium phosphate, and filter.

## IX.

Saccharingr,	2
Sodium bicarbonategr.	60
Salicylic acid av.oz.	1/2
Alcoholfl.oz.	32

Mix, dissolve, and filter.

A few drops in a glass of water make a gargle or collutory which is to be used frequently for bad breath.

# X. Potassium permanganate ......gr. 30 Distilled water ......fl.oz. 4

Use a teaspoonful to a tumblerful of water for a mouth wash.

#### Lip Salves or Pomades.

These are preparations for anointing the lips to cure or prevent "cracking." They consist usually of white or yellow wax, spermaceti, paraffin, cacao butter, petrolatum, or lard mixed with an oil like olive or sweet almond, the whole being flavored, usually with oil of rose. Frequently they are tinted

V.

a rose color by means of carmine, alkannin, or alkanet root. The first mentioned must first be triturated to very fine powder before adding oil or fat, and during cooling the fatty mixture must be frequently stirred to prevent it from subsiding. Alkannin is easier to use because it dissolves in the fats. Alkanet colors the fatty mixture during a rather prolonged maceration assisted by heat. If a colored preparation is to be made, yellow wax should be substituted for white wax, wherever the latter is mentioned, owing to the better keeping qualities of the former. Camphor may be added to these preparations, also salicylic acid.

The preparations are usually known by such titles as "rose lip salve," "tulip salve," "salicylated lip salve," "lip pomade," "rose cerate," "lip ointment" and "coral lip salve."

#### L

White wax	av.oz. 1
Sweet almond	oilfl.oz. 2
Carmine	gr. 1
Oil of rose	drop 1

Melt the wax, add the sweet almond oil, triturate the carmine to very fine powder, mix intimately with the fats, and then incorporate the oil of rose.—Codex.

#### II.

White waxav.oz.	1
Spermacetiav.oz.	1
Liquid petrolatumfl.dr.	6
Tincture of benzoinfl.dr.	2
Alkanet root, bruisedgr.	120
Oil of rosedrop	1

Melt the wax and spermaceti, add the liquid petrolatum and the root, macerate the latter with the melted fats for about one-half hour, strain, allow to cool somewhat, and incorporate the tincture and oil.

#### III.

Spermacetiav.oz. 2
Yellow wax
Sweet almond oilfl.oz. 4
Oil of rosedrops 5
Alkanet root sufficient to color

Melt the fats, add the almond oil, color with the alkanet, strain and add the rose oil. IV.

Spermaceti
Lardav.oz. 2
White wax
Sweet almond oilfl.dr. 2
Mix and melt; if a colored preparation,

add a small amount of bruised alkanet root, macerate for a short time at a moderate temperature, strain and perfume to suit.

Paraffin waxav.oz.	2
Cacao butterav.oz.	2
Petrolatum, white	2%
Eosingr.	
Oil of rosedrops	3

Dissolve the last two ingredients in a minimum quantity of alcohol, and add to the fats when melted.

VI.

Yellow waxav.oz.	1
Olive oilfl.oz.	1
Alkanet root, bruisedgr.	
Oil of rosedrops	2

Melt the wax, add the oil and root, macerate at a moderate heat for an hour, strain, allow to cool somewhat and incorporate the oil.—H.

# VII.

White wax	av.oz.	1/2
Spermaceti	av.oz.	1/2
	oilfl.oz.	
Oil of rose	drop	1

Melt the wax and spermaceti, add the almond oil, and incorporate the oil of rose. —D.

#### VIII.

Yellow waxav.oz.	14
Spermacetiav.oz. Sweet almond oilfl.oz.	14
Sweet almond oilfl.oz.	3
Oil of lemondrops	10
Oil of bergamotdrops	10
Alkanningr.	5

Melt the wax and spermaceti, add the almond oil, and add the remaining ingredients.—D.

IX. To the latter may be added, if desired, 12 grains of salicylic acid.—D.

#### X.

Cacao	butter			*	ï					 ,		*	.av.oz.	4
White	wax	,	,			+	•		•			,	.av.oz.	1/2

Mix by fusion, and perfume to suit.

XI.

Cold cream.	 	av	.oz. 4
Glycerin	 	· · · · · · · · · · · · · · · · · · ·	.dr. 2
Tincture of			
Carmine	 	. sufficient to	color

Rub the carmine with the glycerin, and incorporate with the cold cream; then add the tincture of benzoin, and rub the ointment until the alcohol of the tincture has evaporated.

#### XII.

Carmine, fi	ne		p	01	W	d	er			 			gr.	5
Glycerin												 	fl.dr.	2
Cold cream		+						 			i		av.oz.	4

Rub the carmine with the glycerin and intimately mix with the cold cream. If not the shade to suit, more or less carmine may be used.

This and the preceding preparation may be entitled " rose lip cream,"

#### Cachous.

These consist of the various aromatics combined with licorice extract, sometimes sugar, the whole being formed into a mass which may be divided into pellets, or it may be rolled out in a thin sheet and cut into little squares, or it may be rolled out into a very thin pill " pipe," which may then be cut into short sections. After dividing the mass, the particles may be dried. If desired, the pellets may be silver-coated.

#### I.

Oil of peppermintdrops 30
Oil of lemondrops 20
Oil of nerolidrops 20
Oil of cinnamondrops 20
Cloves
Cardamomgr. 80
Vanilla
Orris rootgr. 150
Mace gr. 400
Sugar
Licorice extract, powderav.oz. 14
Mucilage of gum arabic sufficient

Reduce the drugs to powder, add the remaining ingredients, make a mass and divide into pills weighing 1 grain each, or roll out flat and cut into small pieces.

#### II.

2
12
1

Dissolve the licorice in the water on a water bath, add the gum arabic and catechu, evaporate to the consistence of an extract, add ingredients, add enough extract to form a the remaining solids reduced to fine powder, mass. Divide this into pellets, or roll out and finally when of proper consistence re- flat and cut into pieces.

move from the fire, add the oil of peppermint, and divide into small pellets, or roll the mass out flat and cut into small pieces.

#### III.

Licoric	e extract, powderav.oz.	8
	clovesfl.dr.	1
Oil of	cinnamondrops 10	0

Mix well, add sufficient mucilage of acacia to form a mass, and divide into pellets, or roll out flat and cut into small pieces.

# IV.

Nutmeggr.	192
Cardamoms ,gr.	
Vanillaav.oz.	1/2
Cloves	64
Orrisgr. 1	256
Muskgr.	1
Oil of peppermintfl.dr.	1
Oil of lemonm.	40
Oil of cinnamon,drops	10
Oil of nerolidrops	20
Sugarav.oz.	114
Licoriceav.oz.	24
Extract of licorice soft	
Waterof each, suffici	ent

Reduce the drugs to fine powder, add the remaining ingredients, mix well, make a mass with the extract and water, form into pellets, or roll the mass out and cut into small pieces.

#### V.

Extract of licoriceav.oz.	3
Catechu, powderav.oz.	1
Sugar powderav.oz.	1
Tragacanth, powderav.oz.	1/2
Oil of clovesfl.dr.	
Oil of cassiafl.dr.	1/2
Oil of nutmegdrops	10

Make a mass with water and divide into 1grain pills.

#### VI.

Orris root, powderav.oz.	5
Muskgr. (	
Coumaringr. 1	3
Vanillingr. 20	
Oil of rosedrops 10	
Oil of nerolidrops 20	
Oil of peppermintdrops 20	)
Oil of spearmint drops 20	)
Oil of ylang ylangdrops	
Purified extract of licoricesufficient	t

Mix the orris root with the remaining

# THE STANDARD FORMULARY.

#### VII.

Sugar, powderav.oz. 3	
Licorice, powderav.oz. 3	
Oil of anisedrops 20	
Oil of fenneldrops 5	
Purified extract of licoricesufficient	

Mix the first four ingredients, then add enough of the latter to form a mass, divide into pellets, or roll out flat and cut into small pieces.-D.

# VIII.

Soft extract of licorice av.oz.	3
Catechu, fine powderav.oz.	3
Sugar, finely pulverized av.oz.	1
Tragacanth, powder,av.oz.	1/2
Oil of clovesfl.dr.	1
Oil of cassiafl.dr.	1/2
Oil of nutmegfl.dr.	1/2
Tincture of ambergrisdrops	12
Orange flower water sufficie	nt

With the aid of the water heat into a hard pilular mass, which divide into 2-grain cachous.

# SECTION V-PREPARATIONS FOR THE BATH.

# Bath Powder.

T.

Tartaric														
Sodium														
Starch .	•	•	•	•	•	6			,		•	•	.av. oz.	6

A few spoonfuls of this when stirred into a bathtubful of water cause a copious liberation of carbon dioxide, which is thought by some to be " refreshing."

Perfume may be added to this powder, volatile oils being a good form. Oil of lavender flowers would be a suitable addition in the proportion of a fluidram or more to the av.pound of powder. A better but more expensive perfume may be obtained by mixing 1 part of oil of rose geranium with 6 parts of oil of lavender flowers.

A perfume still more desirable may be had by adding a mixture of the oils from which cologne water is made. For an ordinary quality the following will suffice:

Oil of lavender flowersfl.dr. 1
Oil of rosemaryfl.dr. 1
Oil of bergamotfl.dr. 2
Oil of lemonfl.dr. 4
Oil of clovesdrops 8

For the first quality the following may be taken:

Oil of	neroli	· · · · · · ·		.fl.dr. 2
Oil of	rosemary			.fl.dr. 1
Oil of	bergamot			, fl.dr. 1
	cedrat			
Oil of	orange		******	.fl.dr. 234

A fluidram or more of either of these mixtures may be used to the pound, as in the case of lavender.

#### II.

Borax, powderav.oz.	Ł
Salicylic acid	)
Essence of cassiefl.dr. 1	L
Essence of jasminefl.dr. 1	
Oil of lavender flowersdrops 20	)

Rub the oil and extracts with the borax and acid until the alcohol has evaporated. Use a heaping teaspoonful to the body bath. III.

					.av.oz.	
Nhite	castile	soan.	-		20.02	8

Mix both ingredients, first reduced to powder, and perfume, if desired, as directed in No. I.

## Bath Tablets.

These are formed from the preceding powders by moistening with alcohol; No. 3 may be moistened with water to form tablets.

#### Artificial Sulphur Baths.

Sulphur baths ordinarily are made by simply dissolving potassium sulphuret (sulphurated potassa) in water, in the proportion of from 1/2 av.ounce to 2 av.ounces for every 40 gallons of water. But, in order to obtain a bath more closely resembling some of the more noted natural sulphurous springs which have proven so effectual in the treatment of rheumatism and skin diseases of certain types, the following is advised:

Sulphurated potassa or sodaav.oz.	3/2
Sodium bicarbonateav.oz.	1
Sodium chloridegr.	60
Castile soap shavingsgr.	30
Alum	30
Calcium carbonategr.	30
Watergal.	I

These various materials are boiled in a sufficient quantity of the water to dissolve them, and the solution is stirred about with a wooden or glass rod until an odor of sulphuretted hydrogen becomes manifest. The solution is then poured into the patient's ordinary water bath, previously heated to about 35 degs. C.

# PART VI.

# SODA WATER PREPARATIONS.

II.

## Coloring for Syrups.

In coloring either orange syrup or strawberry red, nothing is perhaps equal to a good black raspberry juice. It makes a nice color and is unobjectionable in every way.

Another convenient and excellent preparation is cochineal coloring, N. F., which may be prepared as follows:

Cochineal, powder	480
Potassium carbonate	240
Alum	240
Cream of tartargr.	
Glycerinfl.oz.	8
Alcoholfl.oz.	1
Water, enough to makefl.oz.	16

Triturate the cochineal intimately with the potassium carbonate and 8 fluidounces of water. Then add the alum and then the cream of tartar; heat the mixture to boiling in a capacious vessel; set it aside to cool, add the glycerin and alcohol, filter, and pass enough water through the filter to make 16 fluidounces.

# Essence, Birch.

Oil of wintergreen	.fl.oz. 5
Oil of lemon	.fl.dr. 2
Oil of cloves Extract of vanilla	.fl.dr. 14
Extract of vanilla	.fl.oz. 4
Alcohol,	fl.oz. 12

Dissolve the oils in the alcohol, and add the extract of vanilla.

# Essence of Ginger, Soluble.

I.

Fluid extract of gingerfl.oz.	4
Pumice, fine powderav.oz.	
Water, enough to makefl.oz.	12

Introduce the fluid extract into a bottle, add the pumice, and shake the mixture thoroughly and repeatedly during the course of several hours. Then add the water in portions of about 2 fluidounces, shaking well and repeatedly after each addition. When all is added, repeat the agitation occasionally during 24 hours, then filter, returning the first portions of the filtrate until it runs through clear, and, if necessary, pass enough

water through the filter to make 12 fluidounces.-N. F.

Jamaica ginger, ground.....av.oz. 16 Alcohol.....fl.oz. 8

Mix, let stand for several hours, and with same menstruum percolate to obtain 24 fluidounces. To this tincture, add 2 av.ounces heavy magnesium carbonate, shake well, and add 24 fluidounces of water, shake again, and filter. If the filtrate is turbid, add more magnesium carbonate and filter again. It deposits slightly on standing a few days, but if again filtered, it remains clear.

# Essence, Mead.

Oil of clovesdrops 20
Oil of pimentodrops 10
Oil of nutmegdrops 30
Oil of corianderdrops 10
Oil of sassafrasdrops 20
Oil of cinnamondrops 5
Oil of lemonfl.dr. 2
Extract of vanillafl.oz. 4
Alcohol,
Waterfl.oz. 4
Magnesium carbonatedr. 4

Mix the oils, dissolve in the alcohol, add vanilla and water and rub with magnesia and pass through filter, to make 1 pint; use of this essence 1 fl.ounce to 1 gallon of the finished syrup.

# Essence, Sarsaparilla.

1.	
Oil of wintergreen fl.dr. 4	
Oil of sassafrasfl.dr. 4	
Alcoholfl.oz. 16	
II.	
Oil of wintergreen fl.dr. 4	
Oil of sassafrasfl.dr. 3	
Oil of anisefl.dr. 1	
Alcoholfl.oz. 12	
Water, enough to makefl.oz. 16	
Dissolve the oils in the alcohol and add th	ie
water.	

III.

Oil of wintergreen,fl.dr.	2
Oil of anise,fl.dr.	
Oil of sassafrasfl.dr.	
Alcohol, enough to make fl oz. 1	6

# Extract of Vanilla.

It may be said that the process of manufacture has less to do with the quality of a vanilla extract than, first, the quality of the bean employed, and, next, the skill of the operator. Thirdly, it may be added, a vanilla extract greatly improves by aging. "The only requirements are cologne spirits, water, sugar, good beans, and time, especially the latter two." The value of glycerin, advised by some, is doubtful.

I. Vanillaav.oz.	1	
Rock candy	2	
Alcohol, deodorizedfl.oz.	9	•
Waterfl.oz.		

Cut the vanilla in small pieces with a sharp knife or scissors, transfer to an iron mortar and beat, with the rock candy, into a fine powder. The sugar should be added in divided portions. Place this in a bottle with the alcohol; allow to macerate, with occasional shaking, for 24 hours, then add the water and continue the maceration for 2 days, or as much longer as is convenient. Finally express and filter.

П.

Vanilla, cut fineav.oz.	1
Alcohol, deodorizedfl.oz.	10
Waterfl.oz.	6

Mix the liquids. Put one-third of the mixture into a suitable water bath apparatus with the cut beans. Cover closely, and heat to not over 60 degs. C. for 1 hour, and remove the heat. Drain off the liquid, add another third of the liquid, repeat the process, and again with the remaining portion of the menstruum. Put the beans in a percolator and, having mixed 2 fluidounces of menstruum in the proportions given (5:3), percolate to remove the last traces of the extract from the beans. Filter the mixed liquids and pour the percolate on the filter to remove the adherent extract.

It will be an advantage to triturate the beans with rock candy, granulated sugar, or clean sand before adding to the liquid. The ignition of alcoholic vapors must carefully be guarded against.

III.		
Vanilla	av. oz.	1
Tonka	av. oz.	2
Alcohol, deodorized	fl.oz.	32
Syrup	fl.oz.	8

Cut and bruise the vanilla, afterward adding and bruising the tonka; macerate for 14 days in 16 fluidounces of the alcohol, with occasional agitation; pour off the clear liquid and set aside; pour the remaining alcohol on the magma, and heat by means of a water bath to about 77 degs. C., in a closely covered vessel. Keep it at that temperature for 2 or 3 hours, then strain through flannel with slight pressure; mix the two portions of liquid and filter through felt. Lastly add the syrup. To render this tincture perfectly clear it may be treated with pulverized magnesium carbonate, using from  $\frac{1}{2}$  to 1 av.ounce to each pint.

#### Fruit Juices.

Carefully select the fruits, and if necessary, as happens with berries, pick out the unripe or decayed ones. Mash the fruit in a tub or barrel by means of a wooden pounder, and leave the pulp in a cool place, at a temperature of about 21 degs. C, for 12 or 24 hours, or until the liquid, when taken in a silver spoon, appears perfectly bright. This shows that the alcoholic fermentation necessary to separate the pectin and other gummy matters has taken place. Then press out the juice. add to it for each 16 fl.ozs. of liquid one fluidounce of cologne spirit, set aside for one night, and filter through paper. The filtrate is now ready to be made into syrup by the addition of the requisite proportion of sugar. If the juice is to be preserved as such, the following, known as Appert's Process, is recommended.

Collect the juice after expression, and omitting the addition of alcohol and the filtering through paper, introduce it into strong bottles-champagne are very good-taking care to leave ample space for the expansion of the liquid. The bottles being well corked and the corks secured with stout cord, are now placed in a vessel of sufficient depth. To prevent breakage, a cloth or a thin board with holes is laid under the bottles, and straw is packed loosely between them. The vessel is then filled with cold water to a height sufficient to cover the bottles up to the shoulder, placed over a gentle fire, and the water slowly brought to ebullition. The boiling is kept up for about 10 minutes,

when the vessel is to be removed from the fire, and the whole allowed to cool down. Lastly, the bottles are sealed by dipping the top in melted sealing wax.

# Fruit Pulp.

To prepare fruit pulp take a quantity of thoroughly ripe fruit; rub and press it to a pulp through a hair sieve into earthen or stoneware pans; add a quarter of a pound of white granulated sugar to each pound of pulp; mix thoroughly; fill the bottle to the neck; cork and tie down with wire; place them in a boiler of cold water as above directed; put over the fire; boil gently for 20 minutes; when cold seal the corks and put the bottles in a cool place, laying them sideways.

## Ginger Ale.

Soluble essence of gingerfl.oz.	6
Citric acidav.oz.	112
Spirit of lemonfl.dr.	2
Caramelav.oz.	
Syrupfl.oz.	56
This is sufficient for a 10-gallon foun	tain.

# Lemonade Seltzer.

Juice of 1 lemon.

Sugar	teaspoonful
Cracked ice	sufficient
Water.	
Mix, shake, strain and fill s	oda glass with

seltzer water. Serve with straws.

# Phosphate, Wild Cherry.

I.

Cherry juice	fl.oz. 4
Syrup of wild cherry	fl.oz. 4
Syrupy glucose	fl.oz. 6
Diluted phosphoric acid	fl.oz. 2
Oil of bitter almonds	irops 2
11.	•
Oil of bitter almonds	irops 2
	fl.dr. 1
Diluted phosphoric acid	fl.oz. 2
Simple syrup	fl.oz. 8
Syrupy glucose	fl.oz. 6
Caramelsufficient t	

# Root Beer.

I.

Fluid extract sarsaparillafl		
Fluid extract of pipsissewaf		
Fluid extract of wintergreen f		
Fluid extract of licoricef		
Oil of wintergreend	rops	48
Oil of sassafrasd		
Oil of clovesd		
Alcohol	l.oz.	10

This makes a root beer "extract" which may be mixed with syrup, or it may be diluted with 9 gallons of water containing 1 gallon of refined molasses, and charged in a fountain. If it is preferred to use a fermented article, add the water and molasses, using warm water, also 1 quart yeast, and keep in a warm place until fermentation is complete.

Ι	1.	

Sassafrasav.oz. 4	
Yellow dockav.oz. 4	
Pimentoav.oz. 4	
Wintergreenav.oz. 4	
Wild cherry barkav.oz. 2	
Coriander seedav.oz. 2	
Hopsav.oz. 1	

Reduce to powder and percolate with a menstruum composed of 3 volumes of alcohol and 5 volumes of water until 48 fluidounces of liquid have passed. Of this halfstrength fluid extract 2 fluidounces are sufficient to make 1 gallon of root beer. Or, exhaust the above drugs with the menstruum indicated, add enough water to make 6 gallons, and start fermentation with 1 pint of yeast.

#### III.

Sarsaparillaav.oz.	
Sassafrasav.oz.	212
Wild cherry barkav.oz.	212
Wintergreen barkav.oz.	21/2

Mix with 5 gallons of lukewarm water, add 4 fluidounces of molasses and  $2\frac{1}{2}$  fluidounces of fresh yeast, and allow fermentation to proceed, then draw off and bottle.

IV. In a suitable vessel place 300 grains each of pipsissewa, dandelion, sassafras, American sarsaparilla, Jamaica ginger, and hops; add 3 gallons of boiling water and keep covered and hot, but not boiling. for 3 hours; cool partially; strain through a cloth and add 5 pounds of white or coffee sugar (or 5 pints of molasses or syrup) to the colature. When dissolved transfer to a large jar and make up to 5 gallons with water. Add one-half pint fresh brewer's yeast (or sufficient compressed yeast), stir, allow to remain in a moderately warm place, and in from 24 to 72 hours it will be fit for use. The beaten white of 1 egg or a little isinglass is often employed for clarification.

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# Soda Foam. (Gum Foam.)

By the title "soda foam," or the more improper term "gum foam," is meant a liquid to be added to syrups, so that when mixed with carbonated (" soda ") water, a certain proportion of gas will be retained in the mixture in the desirable form of foam. Different substances are used in these " foams," and these vary in their gas-retaining or foam-holding qualities. Among the more common substances used in "foams" are gelatin, white of egg, and quillaja tincture.

If gelatin be used, it must be dissolved in the water used in making plain syrup. About one-half av.ounce will be sufficient for 1 gallon of syrup.

In using albumen, the white of 1 egg should be added to 16 fluidounces of water, stirring well, and straining. Or one-half of the water may be replaced by simple syrup. This mixure decomposes very quickly, and should be preserved on ice, or, better yet, it should be prepared only as required.

Quil aja may be used in the form of a tincture which may be prepared as follows:

Quillaja,		fi	11	e	-	cl	h	ip	)S		8					,		.av.oz. 4
Alcohol.		į		*	¥	¥						÷			+		1	fl.oz. 8
Water.,	,		,	•	4					,			-	4				sufficient

Mix the drug with 16 fluidounces of water, boil for 15 minutes, strain, and add enough water through the strainer to make the cola. ture measure 16 fluidounces. Mix the liquid, when cool, with the alcohol, let stand for 12 hours, filter, and to the filtrate add enough water to make it measure 24 fluidounces.

If a cheaper preparation is desired, the alcohol may be replaced by water. The product, which is just as efficient, as a "soda foam" as the preceding, may be preserved by the addition of a small amount of salicylic acid.

One fluidounce of this preparation is required as a "foam" for 1 gallon of syrup.

#### Solution of Acid Phosphates.

#### I.

Bone ash, powder.....av.oz. 8 Sulphuric acid, concentrated .... av.oz. 8 

Mix the bone ash with 8 fluidounces of

16 fluidounces of water, mix thoroughly with a porcelain or glass stirrer, add enough water to make the whole weigh 32 av.ounces, and set the mixture aside for 24 hours, agitating occasionally. Then transfer the mixture to a strong muslin strainer, and subject this to pressure, avoiding contact with metals, so as to express as much liquid as possible. Lastly, filter the liquid through paper.

The acid used in this preparation may be the commercial variety, provided it is free from arsenic, and of a specific gravity not less than 1.83.-N. F.

II.

Calcium carbonate, precipitatedgr.	369
Magnesia, calcinedgr.	116
Potassium carbonategr.	151
Phosphoric acid, U. S. P., or	
85 per cent	31/2
Water, enough to make fl.oz.	16

Mix the acid with 8 fluidounces of water. add the calcium carbonate gradually with constant stirring. When effervescence has ceased, add the magnesia in the same way. and then the potassium carbonate. Finally add the rest of the water, stir well and filter.

Solution of Citric Acid. (Fruit Acid.) Ι.

Citric acidav.oz.	8
Water, enough to makefl.oz.	16
Dissolve and filter.	

II.

Citric acid	0
Alcoholfl.oz.	2
Water, enough to make,fl.oz.	16
T2 1 1 Cla	

Dissolve and filter.

#### Spirit of Nutmeg.

Oil of nutmeg	2					ř,	ν.	÷	÷	i.	÷	2	2	fl.	dr.	4
Alcohol		,	•		•	-		-	-	8	-			fl.	oz.	91/2

## Syrup.

Simple or plain syrup for soda fountain use, or "soda syrup" as it is frequently called. is made of different strengths depending upon the peculiar ideas or notions of the pharmacists. Some use 10 av.pounds to 1 gallon of water, others again use the regular simple syrup of the pharmacopæia, but the most common formula in vogue is the following:

Sugar.....av.lbs. 12 Water ......gal 1

Of course, only the purest granulated sugar water, add the acid previously diluted with should be used. It may be dissolved in the

I.

water by means of heat or by the process of percolation which is now so largely employed in making medicinal syrups.

If the heat process be preferred, the water and sugar should positively not be mixed before applying heat, as scorching of the sugar may occur, thus imparting to the product a certain disagreeable taste which is highly objectionable to a discriminating and delicate palate.

The percolation process should be preferred for making this preparation, as it is much more cleanly, it is constant, and requires but little supervision. Any amount may be made by having a large percolator or several percolators, which may be replenished with sugar and water as required. These percolators should be mounted in a substantial rack; a convenient receptacle for the syrup for ordinary drug store use is a clean glycerin can.

In a few instances it may be found that the density of the above syrup is too low; the U. S. P. syrup must then be used.

# Syrup, Ambrosia.

Port wine fl.oz. 1	16
Lemon syrupfl.oz. 1	16
Raspberry syrup fl.oz.	32
Soda foamsufficier	nt

## Syrup, Birch.

Birch essencefl.oz.	2
Oil of sassafrasdrops	
Syrup, enough to makefl.oz.	64
Soda foamsufficie	ent

#### Syrup, Catawba.

Simple syrup,	U	S	F		• •		2	.fl.oz. 16
Catawba wine.								
Soda foam			 		4	 		sufficient

# Syrup, Cherry.

Cherry juice	pint 1
Syrup	
Fruit acidf	l.dr. 4
Soda foam	ficient

# Syrup, Wild Cherry.

Wild cherry bark	av.oz. 1
Glycerin	fl.oz. 1
Sugar	
Water	sufficient

Reduce the wild cherry bark to No. 20 powder. Mix the glycerin with 4 fluidounces of water and moisten the powder with sufficient of the liquid, macerate for 24 ground coffee, add 32

hours in a close vessel, then percolate and pour on water until the percolate measures 12 fluidounces, add the sugar and when dissolved strain, add half fluidounce of fruit acid and sufficient water to make 1 pint. This can be dispensed as cherry phosphate, by making an addition of solution of acid phosphate when it is drawn.

# Syrup, Chocolate.

Cacao,	pow	vder	c			 	-	 	av.oz.	2
Water.										
Sugar .										
Extract	of	van	illa	ł.,	-	 • •	• •	 	"li.dr.	4

Triturate the cacao in a mortar with a portion of the water to a smooth paste, add the remainder of the water, then the sugar, heat the whole in a suitable vessel with constant stirring until it nearly reaches the boiling point, then strain through a fine sieve, and when cold, add the vanilla extract.

#### II.

Chocolate powder,av.oz.	4
Sugarav.oz.	52
Extract of vanillafl.dr.	6
Water, boilingfl.oz.	24

Mix the chocolate and sugar, triturate the mixed powders with the boiling water added slowly and strain; when cool, add the vanilla extract.

#### Syrup, Coffee.

I.

Mocha co Java coffe	e								.av.oz.	2
Sugar Soda foan		•••	•••	•••	• •	•••	• •	•••	.av.oz.	60
Water					1	5	02	ch	suffici	ent.

The coffee should be fresh roasted, of the very best quality, and be ground to fine powder. Heat it in a vessel with 16 fluidounces of water to boiling, and boil for 1 minute, set the mixture aside for several minutes, then filter through a double filter, and add gradually hot or nearly boiling water, until the filtrate measures 32 fluidounces. In this trate dissolve the sugar by percolation.

II. Mocha coffee...... Java coffee. ...... Sugar ..... Water, enough to make ..... Soda foam.....

Mix the previously ra

THE STANDARD FORMULARY.

macerate in a suitable vessel, a wide-mouth bottle, for example, over night; then, covering the vessel loosely, place in another vessel of water, heat for 2 hours, strain, let stand about 2 hours, pour off clear liquid through muslin strainer, avoiding any of the precipitate, or the liquid may be filtered. Through the filtrate add enough water to make the filtrate measure 32 fluidounces. In the filtrate dissolve the sugar by agitation or percolation, and add the foam. III.

Mocha coffeeav.o	z. 4
Glycerinfl.o	
Soda foam,	
Water, boiling of each, suffi	cient
Sugarav.o	z. 52

Mix the glycerin with the ground coffee, allow to stand for 1 or 2 hours, pack in a percolator, and pour on the water until 32 fluidounces of liquid are obtained. In this dissolve the sugar by percolation.

#### IV.

Coffee, roasted and reduced to
fine powderav.oz. 7
Distilled water, hot
Brandyfl.oz. 2
Simple syrup, U. S. P., boiling
hotfl.oz. 20
Soda foamsufficient

Mix the ingredients, cover well and set Syrup, Lemon. aside in moderately warm, not hot, place for about 15 minutes. Then allow to stand for 24 hours at the ordinary temperature, and filter.-D.

# Syrup, Cream.

Cream,	freshfl.oz. 1	6
Sodium	carbonategr. 6	0
Sugar .	av.oz. 1	8

Mix and dissolve by frequent stirring with a glass rod.

II.

Cream	, fresh.		ι.,						.fl.oz.	16
Milk,	fresh								.fl.oz.	16
Sugar		*		 		×			av.oz.	32

Dissolve by shaking. Keep in a cool place. The addition of 60 grains of sodium bicarbonate will retard souring.

## Syrup, Egg Cream.

Cream	fl.oz, 16
Syrup	fl.oz. 48
Extract of vanilla	
Yolks of 16 eggs.	

Rub cream with egg-yolk until perfectly smooth, then add the syrup and flavoring. This is to be served like any other soda syrup, but before handing over, sprinkle a little mixed spice on the foam.

# Syrup, Ginger.

Tincture of	gingerfl.oz.	2
Syrup	fl.oz. f	14
Soda foam .	sufficie	at

When greater pungency is desired, 1 fluiddram of tincture of capsicum may be added. For the ordinary tincture of ginger, the soluble essence of ginger may be substituted.

Soluble essence of gingerfl.oz.	1
Tincture of capsicumfl.dr.	2
Syrupfl.oz.	64
Soda foamsufficie	nt

For many people ginger is scarcely warm enough without the addition of capsicum.

#### Syrup, Kola Coca.

Wine of kolafl.oz.	4
Wine of cocafl.oz.	
Syrupfl.oz.	48
Soda foamsufficie	ent

Color with caramel and cochineal solution.

	Solution of citric acidfl.oz, 1 Spirit of lemonfl.dr. 4
	Syrup
1	Circle and 190
	Citric acid
	Syrup, enough to makefl.oz. 64

Dissolve the acid in the water and add the spirit, syrup and foam.

#### III.

I

Oil of	lemondrops 12
	acidgr. 300
	fl.oz. 64
Soda	foam, sufficient

Rub oil with acid and a little syrup, add remainder of syrup, and dissolve, and add the foam.

IV. Grate rind from 3 lemons, rub with 6 av.ounces granulated sugar, add 8 fluidounces of water, macerate a short time, stir fre-

SODA WATER PREPARATIONS.

quently, strain, express lemons, mix juice with other liquid, add one-half gallon of simple syrup, U. S. P., and finally sufficient soda foam.

# Syrup, Maple.

Maple sugar ..... av.lbs. 8 Water.....pints 4 Fruit acid.....fl.oz. 1 Extract of vanilla.....fl.oz. 2 Soda foam.....sufficient

Dissolve the sugar in the water with gentle heat, strain and add the vanilla and foam.

## Syrup, Malto.

Extract of malt,	thick	, fl.oz.	4
Solution of acid	phosphate	.fl.oz.	4
Syrup, enough to	make	, fl. oz.	64

# Syrup, Mead.

Ľ.		
1	Pineapple syrupfl.oz.	2
	Soluble essence of gingerfl.dr.	4
	Sarsaparilla essencedrops	15
	Spirit of nutmegfl.dr.	1
	Honey or malt extract fl.oz.	2
	Syrup, enough to makefl.oz.	
	Caramelsufficient to col	or
U	<b>I.</b>	
	Sarsaparilla rootav.oz.	11/2
	Licorice rootav.oz.	2
	Marshmallow rootav.oz.	1
	Gum arabic av.oz.	2
	Make a decoction with water, strain	to 6
pi	ints, add:	
	Sugarav.lbs.	10
		10
	When cold, add:	
	Oil of lemondrops	
•	Oil of wintergreen drops	30
	Oil of cinnamondrops	10
	Oil of sassafrasdrops	15
I	II.	
	Essence of meadfl.oz.	3/2
	Honeyav.oz.	
	Syrup	
	Water sufficient to make 4 pin	nts
-	Mania	
2	yrup, Moxie.	

Oil of sassafrasdrops 1	19
Oil of wintergreendrops 1	
Alcoholfl.dr.	6
State state of Barney and State of Stat	- 25
and a serie of the second second second second	6
	1
Syrup, enough to make fl.oz. (	64

# II.

Compound tincture of gentianfl.oz.	1
Sarsaparilla essencefl.dr.	4
Syrupfl.oz.	
Syrupy glucosefl.oz.	
Caramel sufficient to col	or

## Syrup, Nectar.

#### I.

Raspberry syrup			 	fl.oz. 4
Pineapple syrup			 	fl.oz. 2
Vanilla syrup				
Syrup				
Soda foam	• •	***	 · · · . St	ifficient

# II.

Spirit of nutmegfl.dr.	4
Spirit of lemonfl.dr.	4
Extract of vanillafl.dr.	4
Waterfl.oz.	8
Simple syrup, U. S. Pfl.oz.	56
Soda foamsufficie	

Add coloring if thought desirable.

#### III.

Strawberry syrupfl.oz.	32
Simple syrup, U. S. Pfl.oz.	32
Madeira winefl.oz.	
Spirit of bitter almondsfl.dr.	
Citric acidav.oz.	
Soda foamsuffici	ent

# Syrup, Orange.

#### I.

1/2

Oil of orange (fresh)	drops 10
Solution of citric acid	d fl.dr. 4
Syrup	fl.oz. 64
Soda foam	sufficient

#### II.

Oil of orangedrops	15
Tartaric acidgr. 1	20
Syrupfl.oz.	64
Soda foamsufficie	nt

Rub oil with acid and small portion of syrup, add remainder of syrup; dissolve, add the foam and strain.

Take 6 good oranges and rub the oil from the rind by means of cut, loaf sugar. Then express the juice of the oranges and add to about 4 or 5 pints of syrup. The sugar used to extract the oil should be added to the syrup and the whole heated gently to dissolve the sugar; then strain. If desired for blood orange, color with raspberry juice or tincture of cudbear. Now add syrup to make 1 gallon. In case the oranges are unusually sweet acidify with citric acid. Finally add sufficient soda foam.

#### Syrup, Orgeat.

I.		
Sweet almonds	av.oz.	8
Bitter almonds	av.oz.	21/2
Sugar	av.oz.	<b>4</b> 8
Water	. fl. oz.	26
Orange flower water	.fl.oz.	4

Blanch the almonds, rub them in a mortar to fine paste with 12 av.ounces of the sugar and 2 fluidounces of the water. Mix the paste with the remainder of the water, strain with strong expression, add the remainder of the sugar, and dissolve it with the aid of a gentle heat. Lastly, add the orange flower water and strain the syrup again. II.

Cream syrup	fl. oz.	8
Vanilla syrup	fl.oz.	16
Simple syrup	fl.oz.	8
Oil of bitter almonds	.drops	5

#### Syrup, Pineapple.

I. Concentrated syrup:

Take 1 pincapple, cut it into thin slices, spread these in layers in a wide shallow vessel and sprinkle sugar over them, a layer of sugar for each layer of fruit; let stand 24 hours, pour off the liquid and set aside. Wash the pieces with 2 pints of water and express. To the expressed liquid add 4 av. pounds of granulated sugar, and apply a gentle heat until dissolved. When nearly dissolved, add the juice first obtained and simmer, strain, and keep in well-corked bottles. II.

Concentrated pineapple syrupfl.oz.	4
Syrupfl.oz.	32
Soda foamsufficie	ent

This is the diluted syrup for fountain use.

#### Syrup, Raspberry.

Make from fresh ripe raspberries as directed for strawberry syrup, or make from concentrated fruit juices of the market.

Raspberry juice	oint 1
Syrupp	ints 7
Mix and add	
Fruit acidfl	
Soda foamsuff	icient

#### Syrup, Sarsaparilla.

Essence of sarsaparilla	.fl.dr. 4
Syrup	
Caramel,	
Soda foamof each,	sufficient

#### П.

Fluid extract of sarsaparilla.	fl.oz. 1
Fluid extract of licorice	fl.dr. 4
Oil of wintergreen	drops 10
Oil of sassafras	
Water	fl.oz. 8
Simple syrup, U. S. P., enoug	zh
to make	fl.oz. 64
111.	
Sarsaparilla essence	. fl.dr. 4
Compound fluid extract of sa	
saparilla (for syrup)	
Syrup	fl.oz. 64
Caramelsuffici	ent to colo

# Syrup, Sherbet.

I.	
White wine	fl.oz. 16
Lemon syrup	fl.oz. 16
Pineapple syrup	fl.oz. 32
Soda foam	

# II.

Vanilla syrup	fl.oz.	45
Pineapple syrup		
Lemon syrup		
Soda foam		

#### Syrup, Strawberry.

	ripe strawberries quarts	
Sugar	av.lbs. 1	2
Water	pints	1

Spread a portion of the sugar over the berries, arranging sugar and berries in layers, let stand for several hours, express the juice, and strain, washing out the mark with water. Add the remainder of the sugar and water, raise to the boiling point and strain; bottle while hot and cork well. When wanted for use, mix with an equal volume of simple syrup. Add fruit acid, and soda foam sufficient.

## Syrup, Tea.

	teaav.	
Sugar	av.	oz. 28
Water,		
Soda foam	of each, suff	ficient

Heat 22 fluidounces of water to boiling, remove vessel from source of heat, add the tea leaves to the water, cover the vessel, and allow leaves to infuse not to exceed one or two minutes; pour the liquid off into a filter, and if the filtrate does not measure 16 fluidounces, pour sufficient cold water on the leaves, stir about for a moment, and decant into filter until filtrate measures 1 pint; in this filtrate dissolve the sugar by agitation

or percolation, and to the solution add the ioam.

#### Syrup, Vanilla.

This is prepared by adding enough extract of vanilla to impart the desired flavor, coloring the mixture with caramel, and adding 1 fluidounce of soda foam to each gallon of Some use cream syrup instead of syrup. plain syrup.

# Syrup of Violets.

A so-called syrup of violets may be made by adding a little strong tincture of orris root to water, rendering clear or nearly so, by filtration through magnesium carbonate, and dissolving in the flavored water enough sugar to make a syrup. Tincture of grass may be used as a coloring, if a green tint is desired; but green frequently suggests poison to the lay mind.

# Syrup Walnut or Hickory-Nut Cream.

Take 1 pound of walnut or hickory nut kernels and by blanching remove skin which, if left on, would impart an unpleasant bitter taste; then rub to powder in a wedgewood or porcelain mortar, adding a few drops of lemon juice to prevent separation of oil in kernels; then add water gradually so as to make a thick emulsion. When the emulsion is formed, the whole should be transferred to a cloth and be expressed; the residue should be returned to the mortar and treated as water, Congress. before, pulverizing, triturating again with water, and expressing, repeating this process until all of the nut passes through, occasionally adding a little more lemon juice to the residue. The result of this process, which should measure about 32 fluidounces, should be added to 1/2 gallon of cream syrup. Extract of lemon, vanilla, or other flavoring may ; be added and possibly some kind of coloring. This syrup is to be served like other soda water syrups.

# Tonic, Calisaya.

I. Cinchona barkgr.	120
Gentian rootav.oz.	14
Orange peelav.oz.	3
Cochinealgr.	60
Caraway seedgr.	30
Diluted alcohol suffic	ient
Quinine sulphategr.	8
Oil of rosedrop	1
Simple syrup, enough to makegal.	1

Mix the calisava, gentian, orange peel, cochineal and caraway, reduce to coarse powder, and extract by percolation by means of diluted alcohol so as to obtain 16 fluidounces of percolate; to this add the remaining ingredients.

In dispensing as a carbonated beverage it is best to draw "flat," without foam.

I	I	•	

Red cinchona	1
Orange peel	
Alcoholof each, sufficie Simple syrup, U. S. Pfl.oz.	

Mix the drugs, reduce to coarse powder, and extract by percolation so as to obtain 32 fluidounces of percolate, using a menstruum consisting of 1 volume of water and 2 of alco-To this percolate should be added the hol. syrup.

# Tonic, Java.

Compound tincture of cinchona.fl.dr.	6
Coffee syrupfl.oz.	
Vanilla syrup fl.oz.	
Syrupy glucosefl.oz.	
Syrup, enough to makefl.oz.	

#### Vinegar, Raspberry.

Acetic acid	fl.dr. 4
Raspberry syrup	
Syrup	

Potassium bicarbonateav.oz.	¥
Sodium bicarbonateav.oz.	51/2
Magnesium sulphateav.oz.	
Sodium chloride (pure)av.oz.	
Calcium chloride (anhydrous)av.oz.	31
Watersufficier	

Dissolve the calcium chloride and magnesium sulphate each in 12 fluidounces of water, mix the solutions and after 10 or 15 minutes strain the liquid through muslin with thorough pressure.

Powder the potassium bicarbonate in a mortar, add the sodium chloride and bicarbonate: mix the whole with 16 fluidounces of water, pass the magma through a No. 50 hair sieve, following it with another 16 fluidounces of water, then with the calcium and magnesium solution first obtained, and finally with more water, until the united liquids measure 4 pints. Shake the mixture, place in a 10-galion fountain, fill the latter with water, and charge the whole in the usual way with carbonic acid gas.

Inasmuch as the mixture of magnesium sulphate and calcium chloride has for its object the formation of some magnesium chloride, the following solution may be substituted instead:

Calcium chloride (anhydrous)av.oz.	2
Magnesium chloride (anhy-	
drous)av.oz.	1
Waterfl.oz.	16

Dissolve and mix the sodium chloride and bicarbonate and potassium bicarbonate as before.

#### Water, Friedrichshall.

.Sodium bicarbonategr.	384
Sodium sulphate, crystalav.oz.	11/1
Potassium sulphate	
Magnesium sulphateav.oz.	
Sodium chloride (pure) av.oz.	1014
Calcium chloride (anhydrous). av. oz.	1
Watersuffic	ient

Triturate the potassium and sodium sulphates in a mortar, add the magnesium sulphate and then 3 pints of water, and stir until dissolved; now add the sodium chloride and bicarbonate, continue the stirring for a few minutes, pour the mixture on a No. 50 hair sieve, add the calcium chloride, previously dissolved in 8 fluidounces of water, and then enough water to make the whole measure 4 pints. Put this into the usual 10-gallon fountain, fill the latter with water, and charge with carbonic acid gas to moderate pressure only.

#### Water, Hunyadi Janos.

The following makes an excellent imitation:

Potassium sulphategr.	6
Calcium sulphategr.	60
Sodium sulphateav.oz.	314
Magnesium sulphateav.oz.	4%
Water, enough to makegal.	1′
Min disatur and Chan .	

Mix, dissolve and filter.

# Water, Kissingen (Rakoczy).

Potassium bicarbonategr.	272
Sodium bicarbonateav.oz.	21
Magnesium sulphate, av.oz.	34
Sodium chloride, pureav.oz.	8%
Calcium chloride (anhydrous)av.oz.	21⁄2
Water	ient

Pulverize the potassium bicarbonate in a

mortar, add the sodium bicarbonate and magnesium sulphate, and triturate the mixture with 1 pint of water, until the potassium and magnesium salts are dissolved. Pass the magma through a No. 50 hair sieve, washing what may remain on the sieve through with another pint of water.

Next rub the sodium chloride with 24 fluidounces of water until nearly dissolved and pass this liquid through the sieve.

Finally dissolve the calcium chloride in a few fluidounces of water, pass it through the sieve, and add a little more water to dissolve all the salt, using enough water to make the combined liquids measure 4 pints. Shake the whole well and place in the usual 10-gallon fountain, fill the latter with water, and charge with carbonic acid in the usual manner.

#### Water, Selters (Seltzer).

Sodium bicarbonate ..., av.oz. 3 gr. 384 Sodium chloride (pure). av.oz. 2 gr. 384 Calcium chloride (anhydrous)... gr. 490 Magnesium sulphate... av.oz. 1 gr. 165 Water ..... sufficient

Dissolve the calcium chloride and magnesium sulphate each in 4 fluidounces of water, mix the solution, let stand for 10 or 15 minutes, and strain through muslin with pressure.

Mix the sodium cnloride and bicarbonate with a pint of water, pass the mixture through a No. 50 hair sieve, follow with the preceding liquid and then with enough water to make the liquid measure 4 pints. Shake the whole well, pour into the usual 10-gallon fountain, fill the latter with water, and charge in the usual way with carbonic acid.

The first mixture is for the purpose of forming some magnesium chloride, and hence the following solution may be used instead:

Calcium chloride (anhydrous)...av.oz. ½ Magnesium chloride (anhydrous).av.oz. ½ Water.....fl.oz. 8

Add this to the sodium chloride and bicarbonate as before.

#### Water, Pyrmont.

Calcium chloride (anhydrous).av.oz.	25
Sodium carbonateav.oz.	81
Sodium sulphateav.oz. 3 gr.	<b>5</b> 5´`
Magnesium sulphateav.oz. 1 gr.	384
Ferrous sulphategr.	83
Water	

Dissolve the calcium chloride in 8 fluidounces of water, and the sodium sulphate and carbonate together in 1 pint of water by aid of heat; filter the latter solution, and while vet hot, add to it the calcium chloride solution. After 10 or 15 minutes, the precipitate will have contracted to a heavy mass at the bottom of the vessel. The supernatant liquid should then be decanted without losing any of the precipitate. To the latter, add the magnesium sulphate, shake thoroughly and rinse into a 10-gallon fountain nearly filled with water. Charge with carbonic acid gas to a pressure of 20 pounds, re-open the fountain, throw in the ferrous sulphate, coarsely powdered, close again, and charge to the usual pressure.

The object of charging lightly first before introducing the iron salt is to prevent oxidation of the latter subsequent to its introduction into the fountain.

#### Water, Vichy (Grand Grille).

Potassium bicarbonate	r. 272
Sodium bicarbonate av.o	z. 10
Sodium phosphate, crystal	r. 220
Magnesium sulphate	r. 490
Sodium chloride (pure)	gr. 110
Calcium chloride (anhydrous)g	r. 272
Watersu	fficient

Triturate sodium phosphate with the potassium bicarbonate, add the sodium chloride. magnesium sulphate, and sodium bicarbonate, stir the mixture with 2 pints of water, pass the magma through a No. 50 hair sieve, rubbing through if necessary with the aid of a little more water.

Dissolve the calcium chloride in 4 fluidounces of water, add it to the other solution, and add enough water if necessary, to make the whole measure 4 pints. Shake the whole well together, pour into a 10 gallon fountain, fill the latter with water, and charge with carbonic acid gas in the usual way.

# PART VII.

# MISCELLANEOUS PREPARATIONS.

# Alcohol Dilution Table.

To make the below-mentioned strengths of alcohol, ordinary alcohol should be mixed with water, as follows:

85 p.c. alcohol=17 vol. of alcohol+2 of water. 80 p.c. alcohol=16 vol. of alcohol+3 of water. 75 p.c. alcohol=15 vol. of alcohol+4 of water. 70 p.c. alcohol=14 vol. of alcohol+6 of water. 65 p.c. alcohol=13 vol. of alcohol+6 of water. 65 p.c. alcohol=12 vol. of alcohol+7 of water. 55 p.c. alcohol=12 vol. of alcohol+8 of water. 50 p.c. alcohol=9 vol. of alcohol+9 of water. 50 p.c. alcohol=9 vol. of alcohol+10 of water. 55 p.c. alcohol=9 vol. of alcohol+10 of water. 40 p.c. alcohol=8 vol. of alcohol+11 of water. 35 p.c. alcohol=6 vol. of alcohol+12 of water. 30 p.c. alcohol=5 vol. of alcohol+13 of water. 20 p.c. alcohol=5 vol. of alcohol+14 of water. 15 p.c. alcohol=3 vol. of alcohol+15 of water. 15 p.c. alcohol=3 vol. of alcohol+16 of water. 15 p.c. alcohol=3 vol. of alcohol+16 of water. 15 p.c. alcohol=3 vol. of alcohol+17 of water. 10 p.c. alcohol=1 vol. of alcohol+18 of water.

#### Alloys of Low Melting Point.

#### I. Newton's metal:

Bismuth	 	 	 	 	 2.4			parts 8
Lead	 	 	 	 	 			parts 5
Tin	 	 	 	 	 		1	parts 3

This mixture melts at 95 degs. C.

II. Rose's metal:

Bismuth														
Lead														
Tin		8	• •	• •	•	•	4	•	• •	-	-	•	•	.part 1

This mixture liquefies at 94 degs. C.

III. Wood's metal:

L

Bismuth.														
Lead			4	-				 			2		parts	8
Tin		2							J				parts	4
Cadmium							,					2	parts	3
and the second se														

This mixture melts at 68 degs. C.

Ammonia, Domestic or Household.

Boraxgr.	120
Oil of cinnamondrop	1
Oil of clovesdrop	1
Oil of citronelladrop	1
Alcoholfl.dr.	1
Ammonia waterfl.oz.	32

Dissolve the borax in the ammonia and the oils in the alcohol, and mix the two solutions. II.

Sodiun	1 C	arb	on	ate	a		 	av.oz.	20
								.fl.oz.	
Water.			• • •		• •	**	 ***	 .fl.oz.	23

These are mixed and the clear solution is decanted after 2 or 3 days.

#### Axle Greases.

# Plumbago, very fine powder...av.oz. 4 Lard ..... av.oz. 12 Mix well.

# II.

I.

Plumbago,				
-Suet	 	 	.av.oz.	12
Min mall				

#### Sila n

Plumbago, very fine powder av.or. Petrolatum	
Mix well.	

#### IV.

Caustic soda.	 		 	4	1	 	-	.av.oz.	4
Water						 -		fl.oz.	16
Palm oil	 	2				 		.av.oz.	8
Tallow	 -		 -	+		 		.av.oz.	8

Dissolve the soda in the water, and the fats, and heat until a homogeneous mixture is produced.

V. An excellent lubricant is produced by filtering crude petroleum through animal charcoal (bone black).

VI. Heat together 10 pounds of rosin oil, and 8 pounds of lime, slaked and afterward sifted fine. Stir the mixture constantly while heating, and continue the heating until the mixture is uniform and of the consistency of syrup. The resulting mixture is called rosin soap. Take 1 pound of this and 1 pound of palm oil, melt together, then stir in 50 pounds of rosin oil, and sufficient rosin soap to make the mixture of the consistency of butter. Lastly, add 34 pound of caustic soda, heat and stir until thoroughly combined.

#### Axle Grease Stains, Removal of.

See " Stains, Removal of."

#### Barometer or Hygrometer Paper.

Cobalt chlorideav.oz.	4
Sodium chlorideav.oz.	2
Acaciaav.oz.	
Calcium chloridegr. 175 to	350
Waterfl.oz.	12

Mix, dissolve and filter. In very dry regions, a larger amount of calcium chloride rnust be employed than in moister regions. Glycerin may be substituted for the calcium chloride, but the latter is to be preferred.

To prepare the paper, soak white blotting paper in this liquid and then dry.

The amount of moisture in the air is indicated by the following colors:

Rose red	<b>rain</b>
Pale red	very moist
Bluish red	moist
Lavender blue	nearly dry
Blue	

## Batteries, Filling for Dry.

Charcoal	av.oz.	8
Mineral carbon or graphite	av.oz.	1
Manganese peroxide		
Calcium hydrate	av.oz.	1
Arsenic (oxide)		
Glucose, mixed with dextrin or		
starch	av.oz.	1

These are intimately mixed dry, and then worked into a paste of proper consistence with a fluid composed of equal parts of a saturated solution of chloride of ammonium and chloride of sodium in water, to which are added one-tenth volume of a solution of bichloride of mercury and an equal volume of hydrochloric acid. The fluid is added gradually and the mass well worked up.

## Battery, Fluid.

I. For bichromate batteries:

Mercury bisulphategr.	120
Potassium bichromateav.oz.	
Sulphuric acid, crudefl.oz.	
Waterfl.oz.	16

In the water dissolve first the mercury salt and then the bichromate; then add the sulphuric acid very carefully, stirring constantly with a glass rod. When cool the solution is ready for use. The mercury keeps the zincs well amalgamated.

Sometimes the mercury salt is omitted, and frequently sodium bichromate is substituted for the potassium bichromate.

#### II.

Potassium bichromateav.oz.	- 3
Sulphuric acidfl.oz.	2
Waterfl.oz.	
Mix and dissolve.	

III. For Leclanche batteries.

Ammonium chloride......av.oz. 5 Water, enough to make.....fl.oz. 16 Mix and dissolve.—N. F.

III. For gravity batteries:

Use a saturated solution of copper sulphate in water.

# Battery, Storage.

A very satisfactory storage battery may be constructed in the following manner: After procuring two half-round porous cups and a glass jar sufficiently large to hold them both, get two pieces of sheet lead one-sixteenth of an inch thick, wide enough to fit the halfround side of the porous cups, and deep enough to come an inch above the top edge of the cups and jar. Solder a screw post to each lead plate, nearly fill the cup with a paste consisting of red lead and a solution of sodium sulphate thin enough to run like a cement, and put the lead plates in place, one of them being marked with an +. Fill the outer jar to with n half an inch from the top with a 1:8 solution of sulphuric acid, and the battery is ready for charging. This may be done by attaching for 24 hours to a 12-cell copper sulphate battery, or to a dynamo; but always charge in the same direction. If well charged these storage cells will retain a large volume of electricity for a considerable time, and with a battery consisting of two or more cells small motors, lamps and induction coils may be operated. After the first charge a 5-cell battery suffices to recharge.

## Baume's Scale.

To convert Baume's degrees to specific gravity, the following may be employed:

T. . ..

For liquids lighter than water, add the degree Baume to 130 and divide the sum into 140, viz.:  $45^{\circ}-140+(130+45)-140+175$ -0.80 sp. gr. II.

For liquids heavier than water, subtract the degree Baume from 145 and divide into 145, viz.: 29°B-145+(145--29)-145+116 -1.25 sp. gr. \*

#### Bedbug Exterminators.

The number of "cures" for bedbugs is legion. The following list embraces some of the substances employed for their destruction: Oil of turpentine, kerosene, benzin, mercuric chloride, mercury, paris green, zinc chloride, arsenic, insect powder, Scotch snuff, capsicum, naphthalin, camphor, sulphur fumes, ammonia vapor, soft soap, carbolic acid (both pure and crude), colocynth, wormwood, aloes, pepper, sodium borosalicylate, cimicifuga root; also fresh sprays of stronglyscented plants, such as ledum palustre, pennyroyal, tansy, pine, etc., placed beneath the mattress.

Bedbug exterminators may be in the powder, the liquid or the paste form. The powder may be the well known insect powder, or it may be paris green, or it may be a mixture of different insecticides. Sometimes these powders are made into a paste by moistening and are pressed into cracks containing, or suspected of containing, bedbugs or their eggs.

If the powders are used in the dry form, they may be introduced into the crevices by means of an insect powder blower or "gun."

The liquid exterminators may consist of poisonous solutions like those containing corrosive sublimate or carbolic acid, or they may consist of oil of turpentine, kerosene, benzin, oil of cedar, etc., or they may consist of tinctures of bitter substances like coloycnth or quassia, or they may consist of resinous solutions, or they may consist of soapy solutions, or again they may consist of several of these classes of substances in combination.

Substances like kerosene, benzin, volatile oils, etc., act by dissolving the chitinous coating of insects and thus obstructing the breathing pores and cause death. The resinous substances act largely by cementing over the eggs and thus prevent their hatching. The bitter substances mentioned are usually destructive to insect life.

The objections to these different substances or exterminative purposes are that resins, oil of turpentine, etc., leave stains, benzin, kerosene, etc., are inflammable, corrosive sublimate, paris green, etc., are excessively poisonous, carbolic acid has an unpleasant odor, etc. The evils of the different substances are

therefore often mitigated by combining several of them.

Liquid exterminators may be applied by means of a brush or feather, but a better method is to employ a machinist's oil-can or a bottle containing a perforated cork in which is inserted a quill.

I. One of the most commonly-used bedbug exterminators is the following:

Corrosive sublimate.....av.oz. 1 Alcohol.....fl.oz. 32

Or some of the alcohol may be replaced by water. However, inasmuch as it is the alcohol and not its corrosive consort, that is presumed to be the insecticide, this replacement is not to be recommended. Very frequently a portion of the alcohol, from about 20 to 80 per cent, is replaced by oil of turpentine; this reacts with the corrosive sublimate, precipitating the latter and being itself partially precipitated. Oil of turpentine alone is an excellent bedbug destroyer.

T	τ.	
T	1.	

Corrosive sublimategr. 1	50
Ammonium chloridegr. 8	600
Decoction of quassia (about 1 in 20)fl.oz.	32
Mix and dissolve.—H.	

III,

Sodium chlorideav.oz.	2
Zinc sulphateav.oz.	
Waterfl.oz.	32

Mix and dissolve.-H.

IV. A safe and satisfactory method of exterminating bugs in matresses, upholstered furniture, etc., is by fumigation with sulphurous acid gas, that is, by burning sulphur in a closed room where these articles are located. The bleaching effect of the gas may be a disadvantage.

 7.
 Soft or green soap......av.oz. 1

 Caustic soda......gr. 60
 Water.....fl.oz. 14

 7I.
 Soft or green soap.....av.oz. 6

 Turpentine (thick).....av.oz. 1½
 Kerosene .....fl.oz. 3

 Water, hot.....fl.oz. 20

Dissolve the soap in the hot water, incorporate the turpentine, then the kerosene, and stir until cold.—D.

•

VII.	XIV.
Naphthalin	Naphthalin, crudeav.oz.
Benzinfl.oz. 30	Tobacco, cut (or Scotch snuff).av.oz.
This mixture may be used indiscriminately	Benzinfl.oz. Oil of melissaenough to fla
on bedding, furniture, textiles of all descrip-	
tions, wall-paper, etc.	Mix the naphthalin, tobacco and be
VIII. There are a number of preparations	macerate for 5 days, agitating occasion
>n the market which are put up in flattened	decant the clear liquid, and flavor with th
>>>ttles, provided with a perforated metallic	XV.
op and which consist mainly or entirely of	Colocynth, broken into small
benzin or gasoline, flavored with some vola-	pieces
tile oil, and colored with alkanet. These	Insect powderav.oz. Benzinfl.oz.
<b>Preparations are known by such titles as</b>	
Bug Dynamite," "Bugine," etc. Like all	Mix, macerate for several days, agit
benzin or gasoline preparations, they must	occasionally, and decant the clear liquid
be used with great caution to avoid explosion	XVI.
<b>Or</b> ignition from contact with light or fire.	Sodium borosalicylateav.oz.
IX.	Water or decoction of quassia
Resin	(1 in 20)fl.oz. Spirit of lavenderfl.oz.
Benzinfl.oz. 32	
Oil of amber, crudefl.dr. 2	Mix and dissolve.
Dissolve the resin in the benzin and add	XVII.
the oil.	Savinav.oz.
Х.	Colocynthav.oz.
Oil of amberfl.dr. 1	Capsicumav.oz. Aloesav.oz.
Oil of cedarfl.dr. 1	Water, hotfl.oz. 40 to
Oil of eucalyptusfl.dr. 1	Mix the drugs, previously reduced to c
Resinav.oz. 1 Benzinfl.oz. 64	powder, with the water, and keep in a
	place for several hours, stirring occasio
Mix and dissolve.	then allow to cool and decant the clear li
XI.	—Н.
Camphorav.oz. 21/2	
Paraffin waxav.oz. 2½ Oil of poppyfl.oz. 5	XVIII.
Benzin	Oil of sage (volatile)fl.dr.
Mix and dissolve.—H.	Lampblackav.oz. Alum, powderav.oz.
The oil of poppy may be replaced by the	
cheaper cotton seed oil.	This may be made into a paste with and smeared into the crevices of the
The paraffin acts like resin in gluing over	work.
the eggs of the insect.	
	XIX.
XII.	Tobacco, powder (snuff)av.oz.
Picric acid	Insect powderav.oz. Carbolic acidfl.oz.
Stearic acidav.oz. 11/4 Paraffin waxav.oz. 11/4	Boric acid, powderav.oz.
Oil of cloves	Oil of citronellafl.dr.
Kerosenefl.oz. 32	XX.
Mix and dissolve.	Insect powder av.oz.
XIII.	Pellitory, powderav.oz.
	Carbolic acidfl.dr.

Acetic acid.....fl.dr. 10 Oil of cloves.....fl.dr. 3 Oleobalsamic mixture .....fl.oz. 5 Alcohol.....fl.oz. 24 -H.

Naphthalin, crude	av.oz.
Tobacco, cut (or Scotch snuff).	av.oz. 3
Benzin	
Oil of melissaenough	n to flavor

.

enzin, onally, he oil.

Colocynth,	broken	into	small	
pieces			av.oz.	11/2
Insect powe	d <b>er</b>		av.oz.	11/2
Benzin	• • • • • • •	• • • • •	fl.oz.	32

itating d.

Sodium borosalicylateav.oz.	4
Water or decoction of quassia (1 in 20)fl.oz. Spirit of lavenderfl.oz.	

Savinav.oz.	1
Colocynthav.oz.	1
Capsicumav.oz.	1
Aloesav.oz.	1
Water, hotfl.oz. 40 to 8	50

coarse warm onally, liquid.

Oil of sage (volatile)fl.dr.	3
Lampblackav.oz.	34
Alum, powderav.oz.	31

i water wood

Tobacco, powder (snuff)av.oz.	10
Insect powderav.oz.	10
Carbolic acidfl.oz.	8
Boric acid, powderav.oz.	21/2
Oil of citronellafl.dr.	4
XX.	
Insect powder av.oz.	15
Pellitory, powderav.oz.	15
Carbolic acidfl.dr.	6
Oil of citronellafl.dr.	6
Diluted alcoholsufficie	
Make a thin paste which is to be bro	schart

Make a thin paste, which is to be brushed into the cracks.-H.

Benzin Jelly. (Gelatinized Benzin.) I.

Cocoanut oil soapav.oz.	2
Ammonia waterfl.oz.	3
Solution of potassafl.oz.	1%
Water, enough to makefl.oz.	

Dissolve the soap with the aid of heat in 4 fluidounces of water, add the ammonia and potassa and the remainder of the water.

If the benzin is added in small portions, and thoroughly agitated,  $2\frac{1}{2}$  fluidounces of the above will be found sufficient to solidify 32 fluidounces of benzin.

II.

Cocoanut oil soapav.oz. Ammonia waterfl.oz.	
Glycerinfl.oz. Etherfl.oz.	1
Water, distilledfl.oz.	

Prepare in a similar manner as the preceding, the finished solution containing only 17 grains of soap to the fluidounce.

# III.

Tincture of quillaja	. fl. oz.	3
Benzin, enough to make	. fl. oz.	16

Mix and shake for half an hour, then allow to stand 12 hours to solidify.

Sixteen fluidounces of benzin may also be sa jellified with 4 fluidounces of a 20-per cent I. infusion of quillaja.

# IV.

Castile soap, whiteav.oz. Water, boilingfl.oz.	214
Water, boilingfl.oz.	312
Water of ammoniafl.dr.	5
Water of ammoniafl.dr. Benzin, enough to makefl.oz.	16

Dissolve the soap in the water, and when cold, add the other ingredients.

V.

Hard soap, whiteav.oz.	3
Water, boilingfl.oz.	5
Stronger water of ammonia fl.oz.	8
Benzinfl.oz.	26

Dissolve the soap in the water, and when nearly cold add the ammonia and the benzin, and then perfume to suit.

Soaps with an excess of alkali give the best results.

Bicycle Oil, Illuminating.

Equal parts of kerosene and lard oil.

Bicycle Oil, Lubricating.

Equal parts kerosene and castor oil.

# Bicycle Paint (Glossy Black).

Amber	av.oz.	16
Linseed oil, boiling	. fl. oz.	8
Asphaltum, Trinidad	av.oz.	3
Resin	av.oz.	3
Oil of turpentine	. fl. oz.	16

Melt the amber in the boiling oil and add the asphaltum and resin. Mix thoroughly, remove to the open air, and gradually add the turpentine oil.

Useful for metallic surfaces, such as on bicycles.

# Blackboard Slating or Paint.

In preparing these paints it is essential that the insoluble substances be reduced to very fine powder and that they be thoroughly incorporated in the mixture, and also that they be kept in a state of suspension, during the process of application, by constant agitation.

Of course, much depends upon the skill of the painter, for unless he prepares the surface of the board or wall well before putting on the paint, the latter cannot be expected to appear to the best advantage. Two coats are usually to be preferred to one, and uneven surfaces, after either coat has been applied should be rendered smooth by rubbing with sandpaper or emery cloth.

4.
Lampblack av.oz. 1
Pumice stoneav.oz. 4
Boiled linseed oilfl.oz. 8
Oil of turpentine, enough to
makefl.oz. 32
II.
Shellac
Lampblack (fine quality) av.oz. 1
Emery flourav.oz. 1
Ultramarine blueav.or. 1
Alcohol
Dissolve the shellac in the alcohol. Place
Dissoive the shenae in the alcohol. They
the lampblack, emery and ultramarine blue
the lampblack, emery and ultramarine blue on a cheese-cloth strainer, pour on part of the
the lampblack, emery and ultramarine blue on a cheese-cloth strainer, pour on part of the shellac solution, stirring constantly, and grad-
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the lampblack, emery and ultramarine blue on a cheese-cloth strainer, pour on part of the
the lampblack, emery and ultramarine blue on a cheese-cloth strainer, pour on part of the shellac solution, stirring constantly, and grad- ually adding the solution until all of the pow-
the lampblack, emery and ultramarine blue on a cheese-cloth strainer, pour on part of the shellac solution, stirring constantly, and grad- ually adding the solution until all of the pow- ders have passed through the strainer. III.
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the lampblack, emery and ultramarine blue on a cheese-cloth strainer, pour on part of the shellac solution, stirring constantly, and grad- ually adding the solution until all of the pow- ders have passed through the strainer. III.

IV.

•		
Ivory black	2	
Emery flourav.oz.	1	
Ultramarine blueav.oz.	1	
Shellacav.oz.	4	
Alcoholfl.oz.	32	
Mix well and agitate until the shell	ac	is

dissolved.

Wood alcohol may be substituted for the alcohol.

## Blacking for Shoes.

#### I.

Bone blackav.oz. Molassesav.oz.	
Sugarav.oz. Train or fish oilfl.oz.	4
Sulphuric acid, commercialfl.dr.	

Mix together and set aside for 10 or 12 hours, giving an occasional shake. Then add, under constant stirring, the following:

Decoction of tan bark	fl.oz. 4
Bone black	av. oz. 18
Sulphuric acid, commercial	fl.dr. 18
Which have previously been	mixed and

allowed to stand a few hours.

#### Π.

Rape seed oilfl.oz.	5
Simple syrupfl.oz.	
Waterfl.oz.	38
Ivory black	25
Sulphuric acid, commercialfl.oz.	7

Mix the oil, syrup, and 25 fluidounces of, water, then add slowly, with constant stirring, the acid, and finally the remainder of the water.

#### III.

Bone blackav.02	z. 10
Fish oilfl.oz	z. 1
Simple syrupfl.oz	. 4
Waterfl.oz	
Sulphuric acid, commercialfl.oz	
Muriatic acid, commercialfl.dr	
Ferrous sulphategr	. 150

Mix the bone black, oil, syrup, and 20 fluidounces of water, gradually, and with constant stirring, add the sulphuric acid and then add the muriatic acid and the ferrous sulphate, previously dissolved, in the remainder of the water.—H.

## 1V.

Bone black av.oz	. 10
Molassesav.oz	. 6
Waterfl.oz	. 5
Muriatic acid, commercialfl.dr	. 7
Sulphuric acid, commercialfl.dr	. 7
Oleic acid fl.oz	
-	-H.

#### v.

Bone black	av.oz. 10
Rape oil	
Simple syrup	
Mucilage of gum arabic	
Diluted acetic acid	
Water.	
Alizarin	av.oz. 4

VI.

Bone blackav.oz.	15
Simple syrupav.oz.	9
Strong cider vinegar	3
Sulphuric acid, commercialfl.oz.	114
Caoutchoucav.oz. Rape oilfl.oz.	X
Rape oilfl.oz.	2

Mix the bone black, syrup and vinegar, stir well and add gradually, with constant agitation, the acid, set aside for 8 days, giving the mixture an occasional stir, and then add the caoutchouc previously dissolved in the oil by the aid of heat.

#### Blacking, Day & Martin's.

Ivory blackav.oz.	16
Sulphuric acid, commercialfl.dr.	4
Olive oilfl.oz.	1
Sugarav.oz.	16
Diluted acetic acid, enough to	
makegal.	1

# Bleaching of Linseed and Poppy Seed Oil.

Mix 1 pint of the oil in a bottle with a solution of 150 grains of potassium permanganate in 8 fluidounces of water, shake thoroughly, set aside for 24 hours in a warm place, and then add 225 grains of sodium sulphite in coarse powder. Agitate the whole thoroughly until the latter is dissolved, and incorporate 5 fluidrams of crude hydrochloric acid. Shake frequently until the brown liquid has become quite light in color, and wash the oil with water containing a small amount of chalk until the washings are no longer acid. After separating all the water, the oil may be filtered through exsiccated sodium sulphate. —D.

#### Bleaching Sponges.

Soak the sponges in dilute muriatic acid over night; wash well to remove lime; dissolve 1 pound of hyposulphite of soda in a gallon of water, and immerse in this solution the moist sponges for several hours; then pass the sponges through a bath of dilute muriatic acid; wash in water and dry.

## Bleaching of Sponges.

See "Sponges, Bleaching of."

# Blue Prints.

See " Paper, Blue Print."

# Bluing, Liquid.

Prussian blueav.oz.	5
Oxalic acid av.oz.	11
Waterfl.oz.	10

After solution is effected, dilute as much as desired.

Soluble blue or blue aniline may also be employed for making this preparation.

#### Copper, Bluing of.

Dissolve 1 part of Schlippe's salt in 15 of water, heat to boiling in a porcelain or porcelain-lined vessel, then introduce the copper, suspending the latter so it does not touch the sides of the vessel, allow it to remain until sufficiently affected, then remove, wash and dry.—II.

#### Boiler Compounds for Preventing Incrustation.

A great many substances are recommended as useful in preventing the lime of the water forming hard scales on the interior of steam boilers, and all act by preventing the agglutination of the particles. Among the best of these may be mentioned potatoes, one-fiftieth of the weight of the water being introduced glycerin, 3 pounds to every ton of coal consumed, is another useful addition. Sodium carbonate, ammonium chloride, molasses, spent tanner's bark, slippery elm bark, glucose, etc., are similarly employed. The following formulas for "boiler compounds" may also be employed:

	L		
		4	

I

Catechuav.lb.	2
Sal soda, crystalav.lb.	2
Dextrinav.lb.	1
Potash, crudeav.oz.	8
Alum	8
Sugarav.oz.	8
Gum arabicav.oz.	8
Γ.	

Turmericav.lb.	2
Sodium bicarbonateav.lb.	2
Dextrinav.lb.	1
Potash, crudeav.oz.	8
Alumav.oz.	8
Molasees	8

The foregoing amounts are for a 5-horse power boiler, and for water rich in lime. The next is for river water, 100-horse power boiler, and must be renewed whenever the boiler is emptied:

III.

Sal soda, crystalav.lb_	18
Dextrin	
Alumav.lb	6
Sugarav.lb	6
Potash, crudeav.lb -	3

#### Boiling Points of Saturated Aquaeous Solutions.

#### Boric Acid to Powder.

This acid is found very difficult to reduce to a fine powder by ordinary manipulations, but a satisfactory and elegant powder may be made by the following process: First warm a wedgewood mortar by pouring into it a little alcohol and setting fire to it. Then put into the warm mortar the boric acid with a few drops of glycerin, when it will be found to be easily reduced to a fine powder.

### Bottle Capping Mixture.

1	
- 1	

Gelatinav.oz.	1
Gum arabicav.oz.	1
Boric acidgr.	<b>20</b>
Starchav.oz.	1
Waterfl.oz.	16

Mix the gelatin, gum and acid with 14 fluidounces of cold water, stir occasionally until the gum is dissolved, heat the mixture to boiling, remove the scum and strain. Also mix the starch intimately with the remainder of the water, and stir this mixture into the hot gelatin mixture until a uniform product results. The latter may be tinted with any suitable aniline dye.

This mixture may be used instead of sealing wax for sealing bottles. In using it must be softened by the application of heat. -D.

# II.

Shellacav.oz.	3
Venice turpentineav.oz.	11/2
Boric acidgr.	72
Talcum, powderav.oz.	8
Etherfl.dr.	
Alcohol fl.oz.	12 1⁄2

Dissolve the shellac, turpentine, and acid in the mixed alcohol and ether, color with a spirit-soluble aniline dye, and add the talcum.

During use, the mixture must be agitated frequently.—D.

III. Put a weighed amount of dry glue or gelatin in water, and let it stand over night. In the morning drain and press off all the surplus water, and then dissolve the swollen mass by heating in a waterbath. Add while still in the bath about one-half as much glycerin as there is liquefied gelatin, and for every av. pound of gelatin employed add 1 av. ounce of tannic acid, and stir until entirely homogeneous. If it is desired to color the material any of the mineral colors may be used. Test the liquid on a piece of glass, and if when cold, it is too hard or brittle add a little more glycerin, and if too soft more glue and tannin, preserving the proportions indicated.

# Cleaning of Greasy Bottles.

The following preparation is an efficient solvent for grease in obstinately dirty bottles:

Castile soap, in shavings	.av.oz. 4
Sodium carbonate	.av.oz. 2
Borax	. av. oz. 1
Aqua ammonia	.fl.oz. 7
Alcohol	. fl.oz. 3
Sulphuric ether	
Soft water, enough to make	gal. 1

The soap should be boiled in the water until it is dissolved, and the other ingredients then added.

## Brass Plating.

See " Plating with Gold, Silver," etc.

# Brass, Polish for

I.

Oxalic acidav.oz	2
Pumice stone, powderav.oz.	. 4
Water, enough to make, fl.oz.	16

Dissolve the acid in the water previous to adding the pumice.

Apply, after shaking, with a rag, and polish with a second dry woolen rag.

II. Dip the article in a mixture of 2 parts of common nitric acid and 1 part of sulphuric acid, contained in a stone jar. The articles, after being dipped in this mixture, are thoroughly washed with water and then rubbed with dry sawdust. A solution of oxalic acid is used in the same way, smooth surfaces being rubbed with prepared chalk, or equal parts of the latter (or whiting) and oxalic acid, made into a paste with water, may be applied. A great many other processes are employed, such as rubbing with rotten stone and sweet oil, and then with whiting; this is particularly effective with copper articles.

III. See also "Putz Pomades" and "Polishing Powders."

# Brick Walls, Removal of Efflorescence on.

The usual method of treatment for removal of the white efflorescence on brick walls is by painting with dilute muriatic acid.

## Bronze Paints.

The bronze colors as furnished in the pharmacy serve for temporary purposes; that is, they are expected, in addition to drying rapidly, to be fairly permanent, but not so much importance is laid upon their resisting moisture and atmospheric influences.

Where these latter qualities are desired a copal shellac varnish is the best; though the use of any such varnish is objectionable because the fatty or resinous acids, either already present or liable to develop have a chemical action on the copper of the bronze and are apt to cause it to turn green or to deaden the luster of the bronze.

The commercial liquid bronzes consist for the most part of solutions of resins in turpentine oil and should be rejected on the grounds above indicated. Another variety is made of a mixture of gum dammar, rubber and benzin and this does not present the objectionable features above noted in so marked a degree, but has the disadvantage that owing to the very rapid evaporation of the benzin it is difficult to work with.

The following formulas avoid these objec- first grounded by painting an orange or sar tions. The-liquid bronze is particularly useful for applying to wicker work, plaster figures, frames, leather, etc. With bronze powder no previous coating with varnish is necessary. The bronze paints are used most in the gold, silver and copper colors.

I. Liquid bronze:

Bronze powderav.oz.	11
Borax shellac solution fl.oz.	5
Alcoholfl.oz.	2

Rub the powder, adding the liquid very slowly; put in bottles holding about 1 ounce with not too narrow mouths and label with the following directions:

Shake before using until the contents are thoroughly mixed. Then apply with a camel's hair pencil, shaking again each time before dipping the pencil in.-D.

II. Weather-proof bronzing powder:

Bronze powderav.oz.	
Dextrinav.oz.	8
Potassium bichromategr.	10

Powder the bichromate very fine and mix thoroughly with the other powders.-D.

III. Bronze powder, not weather p	roof:
Bronze powderav.	
Dextrinav.	oz. 1

Dispense in paper parcels of about 150 grains each with the following directions:

Mix the contents of this package with 2 teaspoonfuls of water, set aside until no lumps are left, and then apply with a camel's hair brush.-D.

IV. Bronze paint for cheaper work may be prepared by mixing chrome green, 2 av. pounds; ivory black, 1 av.ounce; chrome yellow, 1 av.ounce; japan, 4 av.ounces. Grind together and thin with linseed oil.

V. Another formula is as follows:

Prepare a size consisting of benzoin, 60 grains; shellac, 1 av.ounce; alcohol, 4 fluidounces. After dissolving by means of a gentle heat, set aside in a cool place for several days and decant the clear solution. To this size the bronze powder is added in sufficient quantity. This paint is applied with a soft brush to the clean metallic sur- linseed oil to make a homogeneor face, a second coat being given if desirable. then add a small quantity of Varnish over all. Sometimes the metal is should stand a few hours be

let color.

# Carriage-Top Dressing.

Asphaltum varnish fl.oz.	13
Linseed oil, boiledfl.oz.	1
Oil of turpentinefl.oz.	G.
Benzinfl.oz.	4

Mix the varnish with the oil, and add the turpentine and benzin.

II.

Burnt	umber					av. oz.	8
						av. oz.	
						gal.	
Oil of	turpent	tine				sufficien	t

Grind the umber with a little of the oil, add the asphaltum previously dissolved in a small quantity of the linseed oil by the aid of heat; then mix all together and boil; when cool add turpentine oil until a proper consistency is attained.

The carriage top should be thoroughly sponged with hot soap suds, rinsed and dried before the dressing is applied.

## Cements.

These are frequently entitled "glues" and possibly some of the formulas to be found under "Glues, Liquid " will serve the purpose of a cement.

#### Cement, Acid Proof.

A cement which is proof against boiling acids may be made from India-rubber, tallow. lime and red lead. The India-rubber must first be melted by a gentle heat, and then 6 to 8 per cent by weight of tallow is added to the mixture while it is kept well stirred; next day slaked lime is applied, until the fluid mass assumes a consistence similar to that of soft paste; lastly, 20 per cent of red lead is added, in order to make it harden and dry-

#### Cement, Aquarium.

Τ.

Lithargeav.or. #
Sand, fine white av.or. 3
Plaster of paris
Resin, fine powderav.or. I
Linseed oil,
Drierof each, sum

Mix the first 3 ingredients, add

# MISCELLANEOUS PREPARATIONS.

#### II.

Lithargeav.oz.	1
Sand, fine whiteav.oz.	
Plaster of parisav.oz.	1
Manganese borategr.	
Resin, powderav.oz.	31/2
Linseed oil varnish	
sufficient to form a pa	ste

D.

Cement for Bicycle Tires.

Gutta perchaav.oz.	1/2
Caoutchoucav.oz. 1	
Carbon bisulphidefl.oz. 4	
Mix and dissolve.	

This cement is dropped into the crevices after they have been properly cleaned. If the rent is very big apply the cement in layers. Bind up the rubber tire lightly with thread, let dry for 24 to 36 hours, cut off the thread and remove the protruding cement with a sharp knife, which must previously have been dipped in water.

II. A very good cement for attaching rubber tires to bicycles can be obtained by placing pulverized shellac in 10 times its weight of strong water of ammonia. The shellac becomes softened, a viscid transparent mass resulting, which, after standing for about 3 or 4 weeks, will liquefy.

This glue is always ready for use, only in cold weather it is necessary to soften it by placing in hot water. It keeps for years without spoiling if well corked. When applied to rubber the surface of the latter becomes soft, but hardens again after the evaporation of the ammonia. This is highly recommended for fastening rubber of any kind to smooth glass or metallic surfaces.

#### III.

Shella	IC		 av	.oz. 2
Gutta	perch	a	 av	.oz. 2
Red	lead		 	.gr. 90
Sulph	ur		 	.gr. 90

Melt the shellac and gutta percha, and add, with constant stirring, the red lead and sulphur, melted. Use while hot.

# IV.

Caoutchouc, in fine shreds ...., av.oz. 1 Carbon disulphide ......fl.oz. 4

Macerate in a well-covered vessel for several days,

#### V.

VI.

B.

Caoutchouc, in fine shreds....av.oz. ½ Chloroform .....fl.oz. 10

Dissolve by maceration.

#### Caoutchouc, in fine shreds....av.oz. 2 Resin .........gr. 140 Shellac......gr. 100 Carbon disulphide ......

enough to dissolve the other ingredients VII. A.

	ine shreds	
Chloroform.		fl.oz. 20
Entry to the second	and the second sec	

Dissolve by maceration.

Caoutchouc, fine shreds.....av.oz. 1 Resin............gr. 180 Venice turpentine.......gr. 90 Oil of turpentine......fl.oz. 4

For the solution B, the rubber is shaved into small pieces and melted with the resin; the turpentine is then added, and all is dissolved in the turpentine oil. The two solutions, A and B, are then mixed.

VIII.

Melt together 2 parts of asphalt or pitch and 1 of gutta percha at a gentle heat. This is to be used. If possible the wheels should be warmed.

IX. See also the rubber and gutta percha cements.

# Cement for Coating, Boiler-Covering, etc.

Litharge	av.oz. 1	15
Boiled linseed	oil	3

Triturate them in a warmed mortar until a plastic mass results.-D.

# Cement Casein.

Sodium borate ......gr. 25 Water.....fl.oz. 1

Dissolve and add sufficient casein to make a mass of the consistence of honey.

This is used for paper, cloth and leather -D.

See also Nos. II., III. and IV. "Cements for Porcelain, Marble," etc.

#### Cement, Celluloid.

To repair broken articles is cement may be prepared pieces of celluloid

liquid after a short time. The pasty residue is a cement that will dry rapidly and not dissolve in water if the articles should be exposed to it.

#### Cement, Dental.

Sorel's cement for filling cavities in teeth is made by adding, rapidly, deliquescent chloride of zinc to enough oxide of zinc to make a thick paste, and applying it immediately.

Zinc phosphate cement is made by mixing zinc oxide with syrupy phosphoric acid made by boiling the 50 per cent phosphoric acid until the temperature rises to 215 degs. C.

# Cement, Diamond or Armenian.

Isinglassgr. 240	
Masticgr.120	
Gum ammoniac or galbanum,	
powdergr. 60	
Alcoholfl.oz. 4	
Waterfl.oz. 4	

Soak the isinglass in the water for 24 hours, evaporate on a water bath to 2 fluidounces, add 2 fluidounces of alcohol, strain, add the mastic dissolved in the remaining alcohol, and add the ammonia by trituration, avoiding loss of alcohol as much as possible.

This cement must be warmed before use.

# Cement for Gas Burners.

Litharge,

Glycerin, of each sufficient to make a stiff paste

#### Cement for Glass.

I.

Brown glue, good quality....av.oz. 4 Acetic acid, 96 per cent.....av.oz. 6 Ammonium bichromate, powder..gr. 90

Dissolve the glue in the water by the aid of moderate heat and the ammonium bichromate. The mixture should be preserved from light.

In using, apply to the surfaces to be cemented, tie together, set aside for several days to dry thoroughly, and then expose to strong sunlight.—D.

II. A solution of potassium bichromate and glue yields a superior cement for broken glassware. The moderately strong glue or gelatin solution is mixed in a dark place or in a photographic dark room, with a small amount of concentrated solution of potassium bichromate. The edges of the fracture. which have been thoroughly cleaned, and then coated with a thin layer of the mixture, strongly pressed together and kept close by tying with twine, or in some other manner. The glass is then exposed to the sun for some hours. This causes the cement to become insoluble even in hot water.

III. The liquid glues are suitable for mending glassware which does not come in contact with liquids. See also "Cements for Porcelain, Marble, Earthenware," etc.

IV.

Caoutchouc,	finely	cut.	 	.av.oz.	34
Chloroform .			 	fl.oz.	10
Mastic powd	er		 	AV.OZ.	4

Mix and macerate until dissolved. Apply with a brush. A larger proportion of caontchouc renders the cement elastic.

#### Cement, Gutta Percha.

Gutta percha, in pieces av.oz. \$	3
Carbon disulphide fl.or 4	£.
Oil of turpentinefl.oz. 1	
Asphalt, powderav.oz. 2	

Dissolve the gutta percha in the carbon disulphide and oil, add the asphalt and let stand for several days, when it will be really for use.

This is used for mending leather, cementing leather upon wood, etc. Before using upon leather, the latter must be freed from fat by treatment with benzin.-D.

### Cement for Iron.

Ι.

Sulphur	 *											av.oz.	5
White lead	*				ŝ	÷	×	×.	÷		4	.av.oz. f	8
Borax	 ŝ	÷		÷	5		*	*			-	.av.or. 1	

Mix well and make into a paste with sulphuric acid.

Apply cement to the parts, using pressure and allowing to stand for 5 to 7 hours. II.

White b	ole													av.oz. 4
Borax.,						4	×,	÷	÷					av.oz. I
Asbesto	s, 1	pow	rd	e	ŕ.				÷	•			-	av.oz. 1

Mix and make into a paste with water.

Powdered iron		 		av.or.	17
Sublimed sulphur		 		AV. OL	2
Ammonium chloride.		 	*	av.oz.	I.

amount of concentrated solution of potassium The ingredients are rubbed with sufficient bichromate. The edges of the fracture, water to form a thick mass, and applied to

# MISCELLANEOUS PREPARATIONS.

the parts, previously well cleansed. After 8 previously well dried. Stir until nearly cool days the luting becomes as hard as iron, withstanding any temperature. The cement is therefore serviceable for mending distillatory apparatus .- D.

#### IV.

Manganese dioxide, fine powder.av.oz. 1
Clay, dryav.oz. 4
Borax, powderav.oz. 5
Mix well.

In using mix enough water to form a very thick paste, fill this into the cracks, and set aside for 24 hours. This is useful for mending cracks in stoves. Upon the application of heat, the cement is melted and securely seals the crack .- D.

# Cement for Attaching Glass Labels to Bottles.

Resin .															
Yellow	wax	 				*	+	.4	*	*	•	•	av.	oz,	8

#### Cement or Glue, Marine.

Macerate 1 to 2 av.ounces of caoutchouc cut into small pieces in 16 fluidounces of benzol (not benzin), promoting solution by the application of heat and by agitation. To the so'ution when formed, and which will have the consistence of thick cream, add 30 av.ounces of powdered shellac, heat the mixture with constant stirring until complete fusion and combination have been effected. Pour this mixture while hot on plates of metal, so that it may cool in sheets like leather.

In using this cement, put some of it into an iron vessel, heat to 120 degs. C., and apply with a brush to the surfaces to be joined.

## Cement for Meerschaum.

Use No. II. under "Cements for Porcelain, Marble," etc., and add 90 grains of calcined magnesia for every 4 av.ounces of casein.

" Diamond Cement " is also excellent for cementing meerschaum.

#### Cement for Fastening Metal to Glass.

Resin .															
Yellow	wa	ax	÷		÷			-					av	OZ.	1
Venetia	n	TE	d					~					av	. OZ.	1

25

so as to prevent the Venetian red from settling to the bottom.

## Cement for Mother-of-Pearl.

Isinglass, thin sheetsgr.	240
Mastic	120
Ammonium chloride, powdergr.	60
Alcoholfl.oz.	31/2
Waterfl.oz.	

Steep the isinglass in the water for 1 day, and then dissolve by aid of a gentle heat, add 16 fluidounces of alcohol, pass through a cloth strainer, and to the hot solution add, with constant stirring, the mastic, previously dissolved in 12 fluidrams of alcohol, and the ammonium chloride.

The articles to be repaired should be warmed, the broken edges smeared with the cement and brought together, and so bound for 6 or 8 hours.

# Cement for Mending Pestles and Mortars.

To unite pestles with the handle, both should first be thoroughly cleansed, then melt together equal quantities of gutta percha and shellac (shellac alone is also used), fill the cavity of the pestle with the melted substance, then insert the handle, and retain the latter in proper position until cool.

Pieces of a pestle or mortar may be united in the same manner. It is advisable to warm the pieces before applying the cement.

A mixture of liharge and glycerin may also be employed for inserting loosened handles of pestles.

# Cement for Porcelain, Marble, Alabaster, etc.

I.

Limeav.oz.	1
White of egg, freshav.oz.	
Plaster of parisav.oz.	
Waterfl.oz.	1.

Reduce the lime to powder, and triturate it with the white of egg to a uniform paste. Dilute this with the water, quickly incorporate the plaster of paris, and use the cement at once.-D.

The materials to be cemented must be ready at hand. The broken surfaces should Melt the wax and resin by aid of water bath be dampened with water so that the cement and add under constant stirring the Venetian will at once adhere. The pieces must be firmly pressed together and kept in this position for about 12 hours. II

Casein, fresh.....av.oz. 4 Silicate of sodium, syrupy solution......sufficient

Mix the case in a mortar with enough of the solution to produce a uniform honey-like mass.

This cement is transparent and keeps for some time. It is not waterproof.—D.

#### III.

Casein, fresh	av.02	. 5
Slaked lime	av.oz	. 1
		-T)

IV.

Portland cement	. av. oz. 2
Prepared chalk	.av.oz. 1
Fine sand	
Solution of sodium silicate	

...sufficient to form a semi-liquid paste Apply the cement and allow to stand for 24 hours.

# Cement for Porcelain Letters.

I.

Solution sodium silicateav.oz. 2
Slaked limeav.oz. 3
Lithargeav.oz. 2
Glycerinsufficient

Mix the solution of sodium silicate and lime, add the litharge, and then enough glycerin to form a paste.

This should be used immediately.

## Ĥ.

Copal resinav.oz. 1	
White leadav.oz. 1	
Lithargeav.oz. 2	
Linseed oil, boiledfl.oz. 3	

Mix well and use at once.

# Cement or Lute for Retorts, etc.

Clay, powdered and siftedav.oz.	6
Rye flourav.oz.	3
Branav.oz.	1

Mix them well. When wanted, take a sufficient quantity and mix it with water to a dough to be applied to the retort or flask.—D.

# Cement, Rubber.

4.		
Carbon bisulphidefl	.oz.	8
Gutta perchaav	. oz.	12
Resin	.gr.	40
11.	-	
India rubber	gr.	15
Chloroformfl.	oz.	2
Mastic	дт. 1	340

First mix the india rubber and chloroform together, and when dissolved the mastic is added in powder. It is then allowed to stand by for a week or two before using.

III. See also "Cements for Bicycle Tires"

#### Cements for Rubber Shoes.

The various "rubber cements," many of the "cements for bicycle tires," may be used in mending rubber shoes.

# Cement, Sodium Silicate.

When sodium silicate solution is used as a cement it must be hardened by the gradual application of heat. If the object is beated quickly, air bubbles will form in the cement and weaken the joint. To resist the action of acids, make a paste of the solution with finely powdered glass, apply, and, after drying in a warm place for a day or more, heat, if possible, to redness. The gray enameled evaporating dishes may be repaired in this manner when fine holes nave appeared in the enamel, and be made very serviceable.

A cement of great hardness and durability may be made by mixing chalk with a thick solution of sodium silicate. The chalk must be well incorporated with the liquid, and <sup>8</sup> or 10 hours are required for the cement to set. When this occurs, the mass is so hard as to be capable of taking a high polish. Mineral coloring materials may be added to this to match the color of the article to be mended

# Cement, Starch.

Starch	:			• •		•••		•••	av. oz. 1
White sug	gar		•••			• •	• •		av. oz. 4
Gum ara	bic					• •			av. oz. 1
Water		•••	•••	• •	••	••	• •	•••	. sufficient

Dissolve the gum in a little hot water ancthe sugar and starch, and boil until the starch is cooked.

Good for repairing china, pottery, etc.

#### Cement, Winchell's.

Gum arabic, clear	tearsav.oz.	2
Starch	av.oz.	14
Sugar	<b>a</b> v.oz.	1/2

Dissolve the gum in as much water as a laundress would use for the quantity of starch indicated; with this solution thoroughly incorporate the starch and sugar, then cook this mixture in a vessel suspended in boiling water until the starch becomes clear. The

cernent should be as thick as tar and should be kept so. It may be preserved by the addition of a little camphor, or oil of cloves, sas-Safras, or wintergreen. The addition of a Small amount of sassafras will increase its effectiveness.

#### Cement, Transparent.

Calcium nitrategr.	60
Gum arabic, powderav.oz.	
Waterfl.oz.	3

Dissolve the calcium salt in the water, and this dissolve the gum arabic.

#### Chemical, Garden.

This may be prepared as follows:

Place a quantity of sand in a wide-mouthed bottle (or better, a half gallon fish-globe) to the depth of 2 or 3 inches; in this layer of sand, slightly imbed a few pieces of copper sulphate, aluminium sulphate and iron sul-Dhate; pour over the whole a solution of . sodium silicate (commercial water-glass) one part and water three parts, care being taken not to disarrange the chemicals in pouring in the solution. Upon standing a week or so, a dense growth of the silicates of the various bases used will be seen in various colors. Now displace the solution of the sodium silicate with clear water, by conveying a small stream of water through a small rubber tube (such as nursing bottle tubing) into the vessel, which will gradually displace the silicate of soda solution. Care must be taken not to disarrange or break down the growth with the stream of water. When successful this produces a very beautiful scene.

## Cleansing Creams. (Electric Cleansing Compound, Lightning Renovator, or Japanese Cleansing Cream.)

I.

Chloroformfl.dr.	
Alcoholfl.dr.	2
Ammonia waterfl.dr.	10
Sodium carbonategr.	120
Castile soapav.oz.	1
Water, distilledfl.oz.	64

Cut the soap up fine and dissolve in some of the water. Dissolve the soda in the remainder of the water; add this in another bottle to the chloroform, alcohol and ammonia. When the castile soap is entirely dissolved add all these ingredients to it. Shake well and bottle securely.

#### II.

Stronger water of ammonia fl.dr.	2
Glycerinfl.oz.	1
Ether fl.oz.	
Castile soap, whiteav.oz.	1
Water, enough to makefl.oz.	32

To 16 fluidounces of water add in the following order the glycerin, ammonia and ether. Shake and add enough water to measure 32 fluidounces. Then add the soap in shavings and shake until dissolved.

## III.

Castile soapav	oz.	11/2
Water	. fl. oz.	64
Ammonia water	fl.oz.	3
Alcohol	fl.oz.	11/2
Ether	fl.oz.	11/2
Glycerin	fl.oz.	1
Oil of citronella or myrbane		

Prepare this like either of the preceding.

## IV.

Glycerinfl.oz.	1
Etherfl.oz.	1
Alcoholfl.oz.	1
Ammonia waterfl.oz.	4
Castile soapav.oz.	1
Water, enough to makefl.oz.	
<b>T</b>	

Prepare like the preceding.

V.	
Castile soapav.oz.	2
Sodium carbonateav.oz.	1
Boraxav.oz.	1/2
Ammonia waterfl.oz.	4
Alcoholfl.oz.	2
Etherfl.oz.	1
Water, enough to makefl.oz.	64

Prepare like the preceding.

VI.	٠			
Castile	soap		.av.oz.	1
Borax	<del>.</del>		.av.oz.	1
Soap 1	iniment		fl. oz.	11/2
Alcoho	1		fl.oz.	21/2
Ammo	nia water		fl. oz.	4
Water,	boiling	<b></b>	fl. oz.	<b>4</b> 8

Dissolve the borax and soap in the hot water, and when cool add the other ingredients.

#### Cleansing Liquids.

These liquids are known by such titles as "Glove Detergent," "Peerless Glove Cleaner," "French Cleaning Liquid," "Lightning Renovator," etc. They are employed for removing various stains, but particularly grease and paint stains. Hence they usually contain such grease solvents as benzin, chloroform, ether, etc.

See also "Stains, Removal of."

I.	
Benzingal. 1	l l
Chloroformfl.oz. 4	
Etherfl.dr. 4	
Oil of bergamotfl.dr. 1	L
II.	
Oil of turpentinefl.oz. 5	<b>j</b>
Water of ammoniafl.oz. 4	
Wood alcoholfl.oz.	
Etherfl.dr. 4	
Acetic etherfl.dr. 4	
Waterfl.oz. 5	)
III.	
Benzin	L
Chloroformfl.dr.	
	-
Alcoholfl.dr. 4	-
Oil of wintergreenfl.dr. 4	Ł
IV.	
Tincture of quillajafl.oz.	2
Spirit of ammoniafl.oz. 1	
	112
Benzinfl.oz. 26	5

## Cockroach Exterminators.

See "Roach Exterminators."

#### Copper Plating.

See " Plating with Gold, Silver," etc.

#### Copper, Polish for.

See " Polish for Brass."

#### Counterfeit Coin Detector.

Silver nitrategr. 24	
Nitric acid, puredrops 15	
Distilled waterfl.oz. 1	
Mix and dissolve.	

Apply a drop to the suspected coin by means of a glass rod. If any other metal than silver is present in larger quantities Dentist's Arsenic Paste or Nerve than the standard United States alloy, a black spot or stain will be produced on the I. coin.

## Croton Bug Exterminators.

The same remedies may be employed for the extermination of croton bugs as are employed against roaches.

#### Culture Fluids. (Nutrient Fuids.)

## I. Pasteur's:

Ammonium tartrategr. Potassium phosphategr.	
Sugar	600
Dissolve and filter.	10/2

## II. Cohn's:

Ammonium tartrategr.	150
Ammonium acetategr.	150 .
Potassium phosphategr.	
Magnesium sulphategr.	1
Calcium chloridegr.	1
Distilled waterfl.oz.	30

#### Dissolve and filter.-D.

III. Miquel's:

Peptonegr.	150
Gelatingr.	
Sodium chloridegr.	40
Potassium carbonategr.	- 4
Distilled waterfl.oz.	16

Dissolve by aid of heat and filter.

#### Dentist's Amalgam Fillings.

The exact composition of these fillings is kept secret, but they are supposed to contain among other things mercury, gold, platinum, etc. The following formula may be used:

Tin, fine raspings		• •	 parts 31
Silver, fine raspings			 parts 19
Mercury			 narts 25
	•••	•••	 

Mix, heat gently until dissolved, allow to cool, and press through chamois leather.

Another formula is the following: Fletcher's platin-gold amalgam.

Platinumparts	1.30
Goldparts	3.35
Silverparts	43.35
Copper parts	1.60
Tin	50.39

Another formula is this:

Telschow's gold amalgam.

Gold	parts 4	.18
Silver		.00
Tin		.00

# Destroyer.

## Arsenous acid.....parts 2 Morphine sulphate ..... part 1

Creosote ... sufficient to form a stiff paste

Used by dentists to destroy dental nerves so as to permit the filling of carious teeth. It should be used only under the direct supervision of a dentist.

TT

Arsenious acid ......gr. 120 Morphine sulphate (or cocaine)..gr. 4 Gycerin and water . . . . . . .

..... equal parts to make a paste

Use like the preceding.

#### III.

Arsenious acid......gr. 60 Iodoform..... ......gr. 60 Lysol...... sufficient to form a paste IV.

Camphor, phenol and talcum, of each sufficient to make a paste.

## Dentist's Modeling Wax.

#### I.

Resin										.av.oz. 1
Olive oil										
Hard paraffin										
Rose pink	•		•	1		•	•	•		sufficient

Melt the resin and paraffin and mix with the oil and coloring, stir constantly until cool. The amount of oil may be increased or decreased according to the consistence desired. Liquid petrolatum, cottonseed oil, or other oil may be substituted for the olive oil. V.

Stearin av.oz. 8
Copal resinav.oz. 3
Talcum, powderav.oz. 6
Carmine, powdergr. 15
Oil of rose geraniumdrops 20

Melt the copal by the heat of a sand bath, add the stearin, mix, remove from the fire, add the other ingredients and stir to produce a homogeneous mixture.

#### Diamond Dust. (Powdered Glass.)

Heat glass red hot, throw it into cold water, dry and powder it. This may be used for powdering the hair, and also as a polishing powder or for filtering acids, etc.

#### DISINFECTANTS.

The object of disinfection is to prevent the extension of infectious or contagious diseases by destroying the specific infectious material, known as bacteria, microbes or germs, which give rise to them. This is accomplished by the use of disinfectants.

Popularly the term disinfection is used in a much broader sense. Any chemical agent which destroys or masks bad odors, or which arrests putrefactive decomposition is spoken of as a "disinfectant." And in the absence of any infectious disease it is common to speak of "disinfecting" a foul cess-pool, or badsmelling stable, or privy vault.

much misapprehension, and the agents which poor substitute for cleanliness.

have been found to destroy bad odors-deodorizers-or to arrest putrefactive decomposition-antiseptics-have been confidently recommended and extensively used for the destruction of disease germs in the excreta of patients with cholera, typhoid fever, etc.

The various consequences which are likely to result from such misapprehension and misuse of the word "disinfectant" will be appreciated when it is known that many of the agents which have been found useful as deodorizers, or as antiseptics, are entirely without value for the destruction of disease germs. This is true, for example, as regards the iron sulphate or copperas, a salt which has been extensively used with the idea that it is a valuable disinfectant. As a matter of fact, iron sulphate in saturated solution does not destroy the vitality of disease germs or the infecting power of material containing them. This salt is, nevertheless, a very valuable antiseptic, and its low price makes it one of the most available agents for the arrest of putrefactive decomposition in privy vaults, etc.

Antiseptic agents also exercise a restraining influence upon the development of disease germs, and their use during epidemics is to be recommended, when masses of organic material in the vicinity of human habitations cannot be completely destroyed, or removed or disinfected.

While an antiseptic agent is not necessarily a disinfectant, all disinfectants are antiseptics, for putrefactive decomposition is due to the development of "germs" of the same class as that to which disease germs belong, and the agents which destroy the latter also destroy the bacteria of putrefaction, when brought in contact with them in sufficient quantity, or restrain their development when present in smaller amounts.

A large number of the proprietary "disinfectants " so-called, which are in the market, are simply deodorizers or antiseptics, of greater or less value, and are entirely untrustworthy for disinfecting purposes.

Antiseptics are to be used at all times when it is impracticable to remove filth from the This popular use of the term has led to vicinity of human habitations, but they are a

During the prevalence of epidemic diseases, such as yellow fever, cholera, typhoid fever, etc., it is better to use in privy-vaults, cesspools, etc., those antiseptics which are also disinfectants-i.e., germicides; and when the contents of such vessels are known to be infected this becomes imperative. Disease germs exist not only in dejecta, but also in the atmosphere; they may be attached to clothing, the germs of tuberculosis may exist in sputa, etc.

In the sick room we have disease germs at a disadvantage, for we know fairly well how to find them as well as how to destroy them. Having this knowledge, our efforts should be directed to restrict the dissemination and propagation of these germs.

The disinfectants that are of the most value depend on the immediate object to be accomplished. Experiments have shown that among the most efficient of all true disinfectants must be ranked corrosive sublimate. But this is poisonous also to the higher animals, and cannot, therefore, have universal application. For disinfecting excrementitious products, it must be considered the best agent there is, and it can be employed also in treating articles of clothing, etc., which should also be boiled before they are again used. Potassium permanganate, which is far less poisonous, is useful, especially from its deodorizing power. While these substances can be employed in the form of a spray, and thus diffused through an apartment, they should be replaced in many cases by gaseous agents, which can more readily pursue the disease germs floating in the air. Of gaseous disinfectants, choice is had between sulphurous acid, chlorine and bromide, and to this list may be added also iodine. The results of recent researches prove that, of the agents available from their cheapness as disinfectants, corrosive sublimate, permanganate of potassium, chlorine, bromine, and perhaps the chloride of zinc, are the only ones having sufficient germicidal power to be worthy of consideration.

## Disinfectants and Antiseptics.-Principles to be Regarded in use of.

1. Seek to prevent the disease germs from finding lodgment where they can multiply or | from cholera and typhoid fever is well estab-

long retain life. To this end, houses, and especially hospitals and pest-houses, must be thoroughly ventilated. Scatter these germs where there is plenty of light and air, and they become harmless; in damp, dark spots they retain their vitality a long time, but sunlight, thorough desiccation, and the oxidizing action of the air, will speedily destroy them. There must be no neglected places about cellars or basements where they can hide themselves and thrive and multiply. Every part of the house, and, most of all, the drains, privy vaults, etc., whose function is to aid in disposing of refuse material, must be kept scrupulously clean. In the instruction issued by the National Board of Health, these points are emphasized and reiterated: "Disinfection cannot compensate for want of cleanliness nor of ventilation." " The most available agents in combating infectious diseases are fresh air and cleanliness."

2. Endeavor to prevent the propagation of these germs by sterilizing the soil on which Accumulations of refuse matter they fall. cannot be altogether avoided, but by the free use of antiseptics, they can be kept in such a condition that spores will not readily germinate in them. It is well known that decomposing organic matter affords the most favorable possible soil for the growth of the lower forms of vegetable and animal organisms. While foul odors are not, in themselves, an evidence of the presence of contagion, they give warning that there is danger, and it is well to heed the warning.

3. Attack the germs themselves, and endeavor to lower or destroy their vitality. This is what is to be accomplished by the use of disinfectants; but the germs are organisms of a very low grade of life, and are therefore The study of the various not easy to kill. disinfectants, with especial reference to their relative value in different diseases or under different circumstances, therefore becomes an It is also essential to know important one. the best means and modes of using them.

## Disinfectants, When and Where to Use.

Disinfection of Excreta.-The infectious character of the dejecta of patients suffering lished, and this is true of mild cases and of the earliest stages of these diseases as well as of severe and fatal cases. It is probable that epidemic dysentery, summer complaint, diphtheria and other diseases are disseminated by means of the alvine discharges of the sick. These should therefore be thoroughly disinfected. In cholera, diphtheria, yellow fever and scarlet fever, all vomited material should be regarded as infectious and should be disinfected. As in tuberculosis, diphtheria, scarlet fever and infectious pneumonia, the sputa should be disinfected or destroyed by fire.

Disinfection of the Person.-The surface of the body of a sick person, or of his attendants, when soiled with infectious discharges, should be at once cleansed with a suitable disinfecting agent. For this purpose Labarraque's solution, diluted with five times its volume of water, may be used. After carefully washing soiled surfaces with this solution, the disinfectant itself is to be washed away with a towel wet with water or with diluted alcohol, one part to ten. The surface of the body of the dead may be disinfected by the use of the same solution, and cloths wet with this solution should be placed over orifices from which infectious material is likely to escape.

In diseases like small pox and scarlet fever, in which the infectious agent is given off from the entire surface of the body, occasional ablutions with Labarraque's solution, diluted with 20 parts of water, will be more suitable than the stronger solution above recommended.

Disinfection of Clothing.—Boiling for half an hour will destroy the vitality of all known disease germs, and there is no better way of disinfecting clothing and bedding which can be washed, than to put it through the ordinary operations of the laundry. No delay should occur, however, between the time of removing soiled clothing from the person or bed of the sick and its immersion into boiling water. If circumstances make it impracticable to do this at once, clothing should be immersed in a suitable disinfecting fluid.

Disinfection of Apartments.—In the sickroom no disinfectant can take the place of sists in the application of heat. The boiling

free ventilation and cleanliness. It is an axiom in sanitary science that it is impracticable to disinfect an occupied apartment; for the reason that disease germs are not destroyed by the presence in the atmosphere of any known disinfectant in respirable quantity. Bad odors may be neutralized, but this does not constitute disinfection in the proper sense of the term. These bad odors are, for the most part, an indication of want of cleanliness or of proper ventilation; and it is better to turn contaminated air out of doors than to attempt to purify it by the use of volatile chemical agents, such as carbolic acid, chlorine, etc., which are all more or less offensive to the sick and are useless as far as real disinfection is concerned.

For the complete disinfection of an apartment in which there has been a case of infectious disease, it is necessary to fill the room completely with chlorine, bromine, sulphurous acid gas, or hyponitric acid, and to keep it shut up for several hours, until every crevice is thoroughly penetrated and permeated by the disinfectant. But this thorough use of disinfectants is only admissible for the prevention of contagion after the recovery or death of the patient.

Disinfection of Privy Vaults, Cesspools, e.c.—When the excreta—not previously disinfected—of patients with cholera or typhoid fever, have been thrown into a privy vault this should be infected, and disinfection should be resorted to as soon as the fact is discovered, or whenever there is reasonable suspicion that such is the case. This may be accomplished with corrosive sublimate or with chlorinated lime. The amount used must be in proportion to the amount of material to be disinfected.

Use 1 pound of corrosive sublimate for every 500 pounds—estimated—of fecal matter contained in the vault, or 1 pound of chlorinated lime to every 30 pounds.

Disinfection of Ingesta.—It is well established that cholera and typhoid fever, are very frequently, and perhaps usually transmitted through the medium of infected water or articles of food, and especially milk. Fortunately there is a simple means at hand for disinfecting such infected fluids. This consists in the application of heat. The boiling temperature maintained for half an hour kills all known disease germs. So far as the germs of cholera, yellow fever, and diphtheria are concerned, there is good reason to believe that a temperature considerably below the boiling point of water will destroy them. But in order to keep on the safe side it is best not to trust anything short of the boiling point (212 degs. F.) when the object in view is to disinfect food or drink which is open to the suspicion of containing the germs of any infectious disease.

During the prevalence of an epidemic of cholera it is well to boil all water for drinking purposes, unless it comes from a source which is beyond suspicion, and especially if it is obtained from wells, or from rivers receiving the sewage of towns, etc. After boiling, the water may be filtered, if necessary, and then cooled with ice placed around the water vessel, not put directly into the water.

Forms of Disinfectants. - Disinfectants may be used in the form of gases as in chlorine, bromine or sulphur fumigation, or they may be used as liquids to be sprinkled about the sick room or poured upon cloths suspended about the room or poured upon excreta and other infected or infectious matter, or as liquids to be sprayed about the room by means of an atomizer (so-called aromatic disinfectants are used in this manner); they may be used as powders which consist of inert powder, mix with disinfectants; or the latter mixture may be formed into cakes; the disinfectants may also be used as pastilles, to be ignited in the room. The fumigating pastilles, powders, etc., of Part V. are also used with the idea of providing disinfection, but their disinfecting powers are very weak indeed. The incenses (see "Incense ") are also used for a similar purpose and are similarly inefficacious.

I.

Aluminium chlorideav.oz.	6
Zinc chloride	
Sodium chlorideav.oz.	2
Calcium chlorideav.oz.	3
Water, enough to makefl.oz.	32

Dissolve the aluminium and calcium salts separately, then mix and allow to settle. In the clear supernatant liquid dissolve the other ingredients.

This mixture may be aromatized by the addition of oils of eucalyptus and win regreen, or oil of rosemary and thymol marching added.

II.

Alum	
Zinc chlorideav.oz. Muriatic acid, commercial, Waterof each, sufficie	ן חי=

Dissolve the alum in  $\frac{1}{2}$  gallon of boiling water, then add the soda which precipitates the aluminium hydrate. Muriatic acid should then be added in sufficient quantity to dissolve the precipitate. The other salts should then be dissolved in 3 pints of water; this should be added to the first solution, and then enough water added to make 1 gallon.

#### III.

Zinc sulphate	7
Ferrous sulphateav.oz.	7
Naphtholgr.	20
Oil of thymedrops	12
Hypophosphorous acid, diluted.fl.dr.	
Waterfl.oz.	32

Dissolve the zinc and iron sulphates in <sup>32</sup> fluidounces of boiling water, add the naphthol and oil and shake the mixture occasionally in a stoppered bottle until cold. Then add the acid and fitter.—N. F.

IV. Where iron is objectionable, as in the treatment of woven fabrics, the iron sulphate of the preceding formula may be replaced by aluminium sulphate (commercial will do), in which case the acid may be omitted.

V. This preparation is known as Burnett's disinfecting liquid, and also as Crew's disinfectant.

Zinc, granulated, or scraps...av.oz. 7 Muriatic acid.....fl.oz. 6 or sufficient Water....fl.oz. & Dissolve, avoiding excess of acid.

VI. The following is known as Ledoyen's disinfectant:

A.

Lithargeav.oz.	4%
Nitric acidfl.dr.	23
Waterfl.oz.	32

Dissolve the litharge in the acid and water previously mixed.

#### VII.

Ferrous sulphate av.oz.	
Ammonium chlorideav.oz.	
Corrosive sublimate	
Alcoholfl.oz.	
Water, enough to makefl.oz. 33	8

Dissolve the iron sulphate in 24 fluidounces of water, and the corrosive sublimate in the alcohol, mix the two solutions, add the ammonium chloride, and then enough water to make 32 fluidounces.

In using as a disinfectant, dilute with an equal volume of water.

VIII. The following was recommended by the Illinois Board of Health some years ago:

Sulphate of iron	av.oz. 13
Crude carbolic acid	
Water	fl.oz. 48
TY 0. 10 1 0.11	

IX. See "Crude Sulpho-carbolic Acid," Part I.

X. Chlorin	e fumiga	ation	1			
Table salt .						
Manganeše	dioxide			 	gr.	919

Reduce to fine powder, spread upon a saucer and add 1 fluidounce of common sulphuric acid. There will be a lively evolution of chlorine, during which time the room should be well closed.—D.

This mixture is sufficient to disinfect 1200 cubic feet of space.

Instead of the above mixture, chlorinated lime and dilute muriatic acid may be used.

XI. Nitric or nitrous fumigation:

Place 4 av.ounces of powdered potassium nitrate in a saucer and add, little by little, 2¼ fluidounces of crude sulphuric acid previously diluted with 2 fluidounces of water.—D.

XII. Sulphurous fumigation: .

Sulphur, s	sublimedav.oz. 7	
Potassium	n nitrateav.oz. 4	ł
	av.oz. 2	
Olibanum	av.oz. 2	1
Camphor.	av.oz. 1	

Usually, however, simply sublimed or roll sulphur is used for sulphurous fumigation. Latterly "sulphur candles " are used, which consist of sulphur poured in a melted condition upon a coil of wicking.

## XIII. Tar fumigation.

Pine tarav.oz.	2
Potassium carbonateav.oz.	1/2
Waterfl.oz.	16

Mix and let simmer in an open vessel standing on a flame or a hot stove.

This is mentioned here, not because of its value, but for the reason that there may still be some demand for it.

## XIV.

Carbolic	acid.	4			i,					2	fl.oz.	1
Alcohol.			ç,							2	fl.oz.	1
Diluted :	acetic	a	c	id						-	fl.oz.	14

Use as a spray, or sprinkle about the room, or else dilute with water, moisten cloths with the mixture and suspend in the room.

## XV.

Mentholgr.	30
Oil of lavenderfl.dr.	1
Oil of lemonfl.dr.	1
Oil of eucalyptusfl.dr.	1/2
Tincture of benzoinfl.dr.	6
Alcoholfl.oz.	16

Use like the preceding.

## XVI.

Oil of eucalyptusfl.dr.	1
Oil of bergamotfl.dr.	11/2
Acetic etherfl.dr.	
Glycerinfl.dr.	
Alcoholfl.oz.	16

Use like the preceding.

#### XVII.

Calcium sulphateav.oz.	6
Quicklimeav.oz.	4
Magnesia (or carbonate)av.oz.	4
Crude carbolic acidfl.oz.	6
Infusorial earth or fine clay av.oz.	3

Reduce the mixture to fine powder.

#### XVIII.

Lime	av.oz. 16
	fl.oz. 4
Infusorial	sufficient to make a powder

XIX.

Sulphate of iron ......av.oz. 17 Plaster of paris...........av.oz. 3 Infusorial earth or fine clay....av.oz. 1½

XX. A disinfectant tablet may be prepared as follows:

Intimately mix 4 av.ounces of powdered tale with 10 av.ounces of plaster of paris and 2 fluidounces of carbolic acid; sufficient water is then added to form a mass, which is poured into small paper capsules prepared for the purpose. The mass soon becomes hard; each tablet is wrapped in paper and tinfoil, and the whole preserved in a tin box.

For use, the wrapper is removed and the tablet is placed in a suitable place in the room, in which a pretty strong odor of phenol will be perceptible for 10 or 15 days, according to the temperature.

XXI. Tin waste or scraps, such as old or useless tin cans, tin boxes, etc., may be utilized to make a disinfectant fluid by throwing them into a wooden barrel or cask containing dilute muriatic acid; the acid gradually dissolves the tin and iron present.

XXII. The following directions are well adapted for placing on bottles of liquefied crude carbolic acid, to which 5 per cent of soft soap has been added:

## MIX ONE PART OF THE SOLUTION WITH TWENTY PARTS OF WATER.

To Purify Sick Rooms.-Moisten with the diluted solution a piece of flannel cloth attached to a long rod, and wave it through the air of the apartment a few minutes. Also, sprinkle it over the floor, and put a small quantity of the solution into the close-stools and bed-pans.

To Purify the Odor of Night Chairs .- Put a half pint of the dilute solution into the pan previous to its use, and when emptied rinse it out with a small quantity.

To Disinfect Cesspools, Drains, Water Closets.—Pour in a quantity of the solution in proportion to the capacity of the receptacle. For ordinary water closets, 1 gallon of the diluted solution will generally be effectual. For large cesspools the quantity must be increased in proportion to their contents.

To Purify Larders and Stables.-Sprinkle the floor and wash all the woodwork with the dilute solution, avoiding the use of soap or alkali.

To Sweeten Musty Casks, Tubs, etc.-Wash and rinse them well with the dilute solution.

To Extirpate Bugs and Other Vermin.-Wash the floors and all the crevices with the dilute solution. The joints, etc., of the bedsteads should be moistened by a brush, with of manganese and hydrochloric acid.

a solution consisting of 1 part of the fluid to 2 parts of water.

OBSERVE IN ALL CASES THE DIRECTION TO DILUTE THIS SOLUTION BEFORE USING.

## Doses, Rules for.

Wiggins' rules for doses are as follows:

1. The dose of all infusions is 1 to 2 fluid ounces, except digitalis, which is 2 to 4 fluid drams.

2. All poisonous tinctures, 5 to 20 minim except tincture of aconite, which is 1 to minims.

3. All wines, from 1/2 to 1 fluidram, exce P wine of opium, which is 5 to 15 minims.

Most solid extracts can be given in dos r. of 1/2 grain; the exceptions are the extracts of poisonous drugs.

5. All diluted acids, from 5 to 20 minimus, except hydrocyanic acid, which is from 2 to 5minims.

6. All waters, from 1 to 2 fluidounces, except chloroform, creosote, cherry-laurel, bitter almond, and ammonia waters.

7. Medicated syrups, usually from 1/2 to 2 fluidrams.

8. Mixtures, from 1 to 4 fluidrams.

9. Spirits, from 1/2 to 1 fluidram, except spirit of glonoin.

10. Essential oils, 1 to 3 minums.

Young's rule to determine the dose of a child is to divide the age of the child by the age plus 12; the quotient represents the portion of the adult dose to be given to the child. For example: The age of the child is 6: divide 6 by 6 plus 12-13; a 6-year-old should receive 1/3 of the dose given to an adult.

#### **Driers.** (Siccative.)

Manganese borate alone may be used as solid driet; however, its action is usually ' powerful, and it is usually mixed with of substances. The following mixtures are u Zinc oxide, 4 parts, manganese borate, 1; and equal parts zinc oxide and ganese borate.

The manganese borate may be pr from the residue remaining after the tion of chlorine from a mixture of bla

-D.

Cobalt borate may be employed instead of the manganese borate.

Liquid drier may be produced by heating 100 parts of linseed oil over the naked flame, stirring constantly until it weighs 85 parts.

See also " Varnish, Linseed Oil."

## Dyes for Easter Eggs.

See " Easter Egg Dyes."

#### Dyes for Fabrics.

Fabrics cannot be dyed promiscuously—one color upon another—and certain rules must necessarily be observed. Inasmuch as these should be known to the pharmacist, they are stated here. All the directions contained herein refer to the coal tar dyes, or aniline colors, from which the package dyes of the market are prepared exclusively.

1. White, that is, uncolored, but unbleached goods, may be dyed any color.

 Yellow goods may be dyed with orange, red, green, brown, gray, or black. Dark blue, violet, or a moderately strong black dye will produce a dark olive-brown color.

3. Red goods may be dyed with red, violet, coffee-brown or dark brown. Black, dark blue, or dark green will give a dark brown color.

4. Violet goods may be dyed with violet, black, coffee-brown, dark brown, or dark green. Orange will produce a brown, and dark green a dark-bronze brown color.

5. Blue goods may be dyed with blue, violet, black, coffee-brown, dark brown, or dark green. Orange dye will produce a brown color.

 Green goods may be dyed with green, coffee-brown, dark brown, or dark gray. Upon dyeing over with black, a dark green to black color will be produced.

 Brown goods may be dyed with brown or black. Red will produce a red-brown color, and black or dark blue a dark brown color.

8. Gray goods may be dyed with gray, brown, dark red and dark green. If the goods are light gray, they may be dyed with marine blue. Violet will produce a gray violet, and dark blue a more or less dark blue gray to black color.

9. Black goods can only be re-dyed with black.

The following directions will indicate how the various dyes are to be employed:

Free the goods from stains, wash well in warm soap water, rinse thoroughly with clear water, and place into rain or river water contained in an earthen or copper vessel large enough so that the liquid will be several inches above the goods. Now dissolve the dye in another vessel by boiling for several minutes in rain or river water; remove the goods from the first vessel; remove as much of the water as possible by expression, returning the expressed water to the vessel; add the dye solution to the water, and then return the goods to the vessel now containing the dye bath. Heat the whole to boiling, turning about continuously with a stick; allow to boil for several minutes; remove the goods from the bath, wash well in clear water; express lightly, and dry in the air.

If it is desired that the goods shall have a glossy appearance upon drying, the dry goods should be sponged on the inner surface with tragacanth water, after which they should be ironed till dry.

The following mixtures should be wrapped in good paper, the latter to be enclosed in envelopes, which should be sealed securely. --D.

I. Black:

Aniline, deep black R av.oz.	2
Oxalic acidgr.	290
Dextrin av.oz.	4
This is sufficient for 1 to 2 pounds	of sill

or wool. It is not suitable for cotton.

II. Blue, dark:

True blue, R	gr. 240
Oxalic acid	gr. 60
Dextrin	gr. 300
This is sufficient for 1 pound	of silk or
wool; it is not adapted to cotton.	

III. Blue, imperial :

Water blue, T Bgr. 110
Oxalic acidgr. 28
Dextrinav.oz. 134
This is sufficient for 1 pound of silk, wool
cotton or linen.

IV. Blue, marine:

New Victoria green, IIgr.	60
Methyl violet, Bgr.	60
Dextringr.	180

This is sufficient for 1 pound of silk, wool or cotton.

V. Blue, sky:	XV. Violet, bluish:
Water blue, IBgr. 70           Oxalic acid	Methyl violet, 3 Bgr. 35 Dextrin
Dextrin	This is sufficient for 1 pound of silk, second
This is sufficient for 1 pound of silk, wool	or cotton.
or cotton.	XVI. Violet, reddish:
VI. Brown, Bismarck: Vesuvin Sgr. 115	Methyl, violet Rgr. <b>D0</b> Dextrinav.oz.
Dextrin	This is sufficient for 1 pound of silk, woo
This is sufficient for 1 pound of silk, wool	or cotton.
or cotton.	XVII. Yellow:
VII. Brown, coffee:	Naphthol, yellow Sgr. 120
Vesuvin Bgr. 240 Dextrin	Oxalic acidgr. 24 Dextrinav.oz. 1
This is sufficient for 1 pound of silk, wool	This is sufficient for 1 pound of sil k or
or cotton.	wool; it is not adapted to cotton.
VIII. Gray:	Dyeing Leather.
Nigrosin, Wgr. 90	I. Black:
Oxalic acid	Treat with a solution of ferrous sulphate
Dextrinav.oz. 1 This is sufficient for 1 pound of silk or	or iron acetate. The leather may first
wool; it is not adapted to cotton.	mordanted with a solution of extract of large-
IX. Green:	wood.
New Victoria green	II. Blue:
Dextrin	Extract 150 grains of nutgall with 32 flue d.
This is sufficient for 1 pound of silk, wool	ounces of water and brush the leather wr
or cotton.	this liquid. Then brush over with a solution
X. Orange:	of 150 grains soluble blue aniline and grains of glue in 32 fluidounces of water
Orange IIgr. 120	Use each mixture three times, then dry ar
Oxalic acid	finish with yelk of egg.
This is sufficient for 1 pound of silk, wool	
or cotton.	Apply an intimate mixture of 4 av.ounc-
XI. Red, amaranth:	of umber (raw or burnt), $\frac{1}{2}$ av.ounce -0
Diamond fuchsin I, small crystals.gr. 45	lampblack, and 17 fluidounces of oxgall.
Dextrinav.oz. 1	
This is sufficient for 1 pound of silk, wool or cotton.	Dissolve 1 av.ounce of alum in 1 gallon
XII. Red, cherry:	water which furnishes the mordant.
Cerise D, IVgr. 50	The dye consists of 4 av.ounces of indig
Dextrin	carmine dissolved in 7 pints of boiling water
This is sufficient for 1 pound of silk, wool or cotton	2 pints of strong decoction of fustic, and fluidounces of logwood.
XIII. Red, imperial:	V. Red:
Erythrosin, INgr. 90 Dextringr. 360	Apply a tincture made from 1 av.ounce cochineal and 16 fluidounces of 80-per c
This is sufficient for 1 pound of silk, wool or cotton.	alcohol.
XIV. Scarlet:	VI. Yellow:
True ponceau, GGNgr. 180	Extract 1 av. ounce of turmeric and $\frac{1}{2}$ == $\frac{1}{2}$ . ounce of gamboge with 24 fluidounces. T be
Oxalic acid	leather requires mordanting with a solution of
Dextrin	
or cotton.	the dye.

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## Easter Egg Colors or Dyes.

The following mixtures containing coal tar colors are intended for the dyeing of easter eggs. About 75 grains may be wrapped in parchment or waxed paper and put up in a package, which will be sufficient for at least 5 eggs. If more than one color is intended for one package, smaller amounts of each dye may be put up in each individual package. The directions on a 75-grain package should be as follows:

Dissolve the dye in a porcelain or earthen vessel in 1 pint of boiling water, stirring until solution is completed. In the meantime boil 5 well-washed eggs in water for 5 minutes, then transfer them to the dye bath, and allow to remain until sufficiently colored, turning the eggs about occasionally. Then dry them with a soft cloth, without pressure, and rub with oil or fat meat until they appear glossy. The remaining dye can be used for 5 or more eggs if desired.—D.

I. Blue:
Marine blue, BNgr. 60
Citric acidgr. 600
Dextrinav.oz. 2
Mix well and divide into 20 parts.
II. Brown:
Vesuvin, Sav.oz. 1
Citric acidav.oz. 114
Dextrinav.oz. 1
Mix well and divide into 20 parts.
III. Green:
Brilliant green, Ogr. 225
Citric acidgr. 300
Dextrinav.oz. 214
Mix well and divide into 20 parts.
IV. Orange:
Orange, I 1gr. 150
Citric acidgr. 300
Dextrin
Mix well and divide into 20 parts.
V. Red:
Diamond, fuchsin, I, small
crystalsgr. 60
Citric acidgr. 300 Dextrinav.oz. 21/2
Mix well and divide into 20 parts.
VI. Rose:
Eosin, Agr. 75
Dextrinav.oz. 3
Mix well and divide into 20 parts.

## VII. Violet:

Methyl violet, 6 Bgr. Citric acidgr. Dextrinav.oz.	300
Mix well and divide into 20 parts.	
VIII. Yellow:	
Naphthol, yellow, Sgr. Citric acidgr. Dextrinav.oz.	600
Deathin	~74

Mix well and divide into 20 parts.

#### Eggs, Preservation of.

One pound of lime should be stirred with a gallon of water, and the eggs, perfectly fresh, immersed therein in barrels or jars. This excludes air and any germs that might cause mildew or mold, and prevents evaporation, so that the contents of the eggs are not reduced in bulk. It is important to have a considerable excess of lime to replace any that may become carbonated. The vessels containing the eggs should be kept in a cool, well-ventilated place. A very successful variation in the process consists in imbedding new-laid eggs, warm from the nest, in a thick paste of lime and water. Eggs thus preserved for six months could hardly be distinguished from those newly laid. The contents of eggs evaporate rather rapidly through the shell, and the object of the preserver must be to prevent this evaporation, and at the same time to allow for the expansion and contraction of the natural air-space in the egg due to changes of temperature. The plan of coating the shells with wax or melted paraffin fails in the latter particular. Strong brine fails because the contents of eggs preserved in it become much reduced in bulk.

Eggs for keeping should never be laid on their sides; pack with the small end down.

## Embalming Fluids.

Ι.

Arsenous acidgr. 1	360
Mercuric chlorideav.oz.	
Alcoholfl.oz.	9
Solution of carbolic acid, 5 per	
centfl.oz. 1	120

From 10 to 12 pints of this are injected into the carotid artery—at first slowly and afterward at intervals of from 15 to 30 minutes. The addition of a little red aniline imparts to the corpse a life-like hue. II. Brunelli's embalming process is as follows:

The circulatory system is cleansed by washing with cold water until it issues quite clear from the body. This may occupy from 2 to 5 hours. Alcohol is then injected so as to extract as much water as possible. This requires about 15 minutes. Ether is then injected to remove fatty matters, this requiring from 2 to 10 hours. A strong solution of tannin is injected and allowed to be absorbed, which will require from 2 to 10 hours. The body is then dried in a current of warm air, which has passed over calcium chloride. This may occupy from 2 to 5 hours, when the operation is complete.

### HI.

Thymol
Alcohol
Glycerinfl.oz. 10
Waterfl.oz. 5
Dissolve thymol in the alcohol, then add

the glycerin and water.

## Etching Copper, Liquid for.

Solution of ferric chloride, U.	
S. P	13
Sodium chlorideav.oz.	434
Mix and dissolve.—II.	

## Etching of Glass, Tin and Zinc.

See "Ink, Diamond," and "Ink for Writing on Metals."

### Etching Iron and Steel, Liquid for. I.

Corrosive sublimateav	.oz.	1.
Tartaric acid	.gr.	40
Nitric acidf	l.ďr.	16
Waterff	.oz.	24
Mix and dissolve.—II.		

П.

Tincture of iodinefl.oz, 8	1/2
Potassium iodideav.oz. 1	<i>′</i> -
Distilled waterfl.oz. 5	
Mix and dissolve.—H.	

#### Feathers, Bleaching of.

Feathers turned yellow are bleached according to one process by soaking them for a few hours in a warm soap bath (78 to 85 degs. C.) which should not be too strong, rinsing and exposing them, strung upon a thread, for some time to the sun, frequently moistening them meanwhile.

According to another process, the feathers, after having been treated in the warm soap year. This yields excellent results.

bath, should be rinsed off and transferred to water acidulated with sulphurous acid. Here they should be allowed to remain for 20 or 30 hours, then washed, drawn through a weak, lukewarm soap bath, and dried in the sun, or left in the sun for 1 or 2 days, being frequently moistened.

According to Dobereiner, a solution of ammonium carbonate is the best means of bleaching feathers as it effects the purpose much quicker than sulphurous acid.

## Fertilizers.

These are intended for the fertilization of Toof garden and flowering plants. They are often man put up under such names as "Plant Food," "" "Lawn Fertilizers," "Chemical Food for or Plants," etc.

Sugarav.oz. 2	
Ammonium sulphateav.oz. 8	
Potassium nitrateav.oz. 4	

I	I	•	

III.

Calcium phosphateav.oz.	4
Potassium nitrateav.oz.	1
	1
Magnesium sulphateav.oz.	1
Iron (ferric) phosphategr. 90 to 1	75

Mix well.

In using, mix 30 grains with 1 quart occord of water and with this sprinkle the plants.

A superior mixture is produced by using **and** instead of the insoluble calcium phosphate. is, the soluble acid '' superphosphate. ''-D.

Ammonium nitrate.....av.oz. 4 Ammonium phosphate.....av.oz. 3 Potassium nitrate......av.oz. 3 Potassium nitrate..........gr. 220 Calcium sulphate.......gr. 260 Ferrous sulphate .......gr. 175 Mix well and use like the preceding.-D IV. Fertilizing Mixture for Lawns: Sodium nitrate......av.oz. 8 Superphosphate of calcium...av.oz. 10 Guano ......av.oz. 10 Guano ......av.oz. 13 This should be applied once or twice a ar. This yields excellent results.

## Filter Paper Toughened.

Filter paper may be toughened by immersing in concentrated nitric acid and washing with water. It is then remarkably toughened, the product being pervious to liquids, and quite different to the parchment paper made by means of sulphuric acid. It can be washed like a piece of linen. So treated it contracts in size, and the ash is diminished, the weight is slightly reduced, and it contains no nitrogen. The toughened paper can be used with the vacuum-pump in ordinary funnels, without extra support, and fits sufficiently close to prevent undue access of air, which is not the case with parchment paper. Another admirable way of preparing filters is this: Dip only the apex of the folded paper into nitric acid, and then wash with water; the weak part is thus effectually toughened:

#### Fires, Colored.

Colored fires are composed essentially of three kinds of ingredients, viz.: a combustible, an oxygen producer, and a coloring agent. The cheaper "fires" usually contain sulphur as a combustible, while the better ones contain shellac, sometimes lycopodium. Those containing sulphur are not adapted to indoor use because of the irrespirable sulphurous acid gas which is produced. It is to be noted, also, that "fires" containing a poison like an arsenic compound or calomel are also not to be employed for in-door use.

The second kind of ingredient, the oxygen producer, is usually potassium chlorate or potassium nitrate.

The coloring agent depends, of course, upon the color desired—a barium salt being used for red, a strontium salt for green, a copper salt for blue, etc.

The ingredients of "fires" should always be quite dry; in fact, it may be necessary to dry them before mixing. They should also always be in quite a fine powder. Shellac, which, as is stated, is a common ingredient of these "fires," may be reduced to powder by grinding in a mill. The ingredients now dried and powdered may be mixed by means of the hand or a wooden (not steel) spatula. Triturating or rubbing in any way likely to

cause much friction, must be avoided because of the danger of spontaneous combustion.

## Fire, Blue.

0.1.1	
Sulphurav.oz.	3
Potassium sulphateav.oz.	3
Ammonio, sulphate of copperav.oz.	3
Potassium nitrateav.oz.	51/
Potassium chlorate	51/
Totassium emorater	0 72
II.	
	100
Realgarav.oz.	1/2
Charcoal, woodav.oz.	34
Potassium chlorateav.oz.	114
Sulphurav.oz.	31/2
Barium nitrateav.oz.	19
	27
III.	
Potassium nitrateav.oz.	8
Antimony sulphide	4
Antimony sulphideav.oz.	4
Zinc (metallic)av.oz.	2
717	
IV.	
Potassium chlorateav.oz.	6
Alum, dried av.oz.	3
Shellacav.oz.	2
Sulphurav.oz.	
Supra	
V.	
Potassium chlorateav.oz.	
Calcium carbonateav.oz.	3
Malachite, powderav.oz.	21/2
Sulphurav.oz.	21/2
	1-
VI.	
Orpimentgr.	60
Charcoal, woodgr	60
Black antimonyav.oz.	2
	ő
Potassium nitrateav.oz.	
Sulphurav.oz.	8
VII	
VII.	
Shellacav.oz.	4
Shellacav.oz. Potassium chlorateav.oz.	4
Shellacav.oz. Potassium chlorateav.oz.	4
Shellacav.oz.	4
Shellacav.oz. Potassium chlorateav.oz.	4
Shellacav.oz. Potassium chlorateav.oz. Ammonia-copper sulphateav.oz. VIII.	4 12
Shellacav.oz. Potassium chlorateav.oz. Ammonia-copper sulphateav.oz. VIII. Copper sulphateav.oz.	4 12
Shellacav.oz. Potassium chlorateav.oz. Ammonia-copper sulphateav.oz. VIII. Copper sulphateav.oz. Calcium carbonateav.oz	4 12
Shellac       av.oz.         Potassium chlorate       av.oz.         Ammonia-copper sulphate       av.oz.         VIII.       Copper sulphate       av.oz.         Calcium carbonate       av.oz.         Potassium chlorate       av.oz.	4 12 1 31/2
Shellacav.oz. Potassium chlorateav.oz. Ammonia-copper sulphateav.oz. VIII. Copper sulphateav.oz. Calcium carbonateav.oz	4 12 1 31/2
Shellac.       av.oz.         Potassium chlorate.       av.oz.         Ammonia-copper sulphate.       av.oz.         VIII.       Copper sulphate.       av.oz.         Calcium carbonate.       av.oz.         Potassium chlorate.       av.oz.         Sulphur       av.oz.	4 12 1 31/2
Shellacav.oz.         Potassium chlorateav.oz.         Ammonia-copper sulphateav.oz.         VIIII.         Copper sulphateav.oz.         Calcium carbonateav.oz.         Potassium chlorateav.oz.         Sulphurav.oz.         IX.	4 12 13 12 13 12 13 12 12 12 12 12 12 12 12 12 12 12 12 12
Shellac       av. oz.         Potassium chlorate       av. oz.         Ammonia-copper sulphate       av. oz.         VIII.       copper sulphate.       av. oz.         Calcium carbonate       av. oz.         Potassium chlorate       av. oz.         Sulphur       av. oz.         IX.       Shellac.	4 12 1 3 1 2 2 4 2
Shellacav.oz.         Potassium chlorateav.oz.         Ammonia-copper sulphateav.oz.         VIIII.         Copper sulphateav.oz.         Calcium carbonateav.oz.         Potassium chlorateav.oz.         Sulphurav.oz.         IX.	4 12 1 3 1 2 2 4 2
Shellac       av. oz.         Potassium chlorate       av. oz.         Ammonia-copper sulphate       av. oz.         VIII.       copper sulphate         Calcium carbonate       av. oz.         Potassium chlorate       av. oz.         Sulphur       av. oz.         IX.       Shellac       av. oz.         Potassium chlorate       av. oz.         Calcium carbonate       av. oz.         Sulphur       av. oz.         Shellac       av. oz.	4 12 13752 24
Shellac       av. oz.         Potassium chlorate       av. oz.         Ammonia-copper sulphate       av. oz.         VIII.       copper sulphate         Calcium carbonate       av. oz.         Potassium chlorate       av. oz.         Sulphur       av. oz.         IX.       Shellac       av. oz.         Potassium chlorate       av. oz.         Copper sulphate       av. oz.         Sulphur       av. oz.         Shellac       av. oz.         Potassium chlorate       av. oz.         Shellac       av. oz.         Copper ammonia sulphate       av. oz.	4 12 13724 245
Shellac.       av.oz.         Potassium chlorate.       av.oz.         Ammonia-copper sulphate.       av.oz.         VIII.       Copper sulphate.       av.oz.         Calcium carbonate.       av.oz.         Potassium chlorate.       av.oz.         Sulphur       av.oz.         IX.       Shellac.       av.oz.         Potassium chlorate.       av.oz.         Copper sulphate.       av.oz.	4 12 13724 245
Shellac.       av.oz.         Potassium chlorate.       av.oz.         Ammonia-copper sulphate.       av.oz.         VIII.       Copper sulphate.       av.oz.         Calcium carbonate.       av.oz.         Potassium chlorate.       av.oz.         Sulphur       av.oz.         IX.       Shellac.       av.oz.         Potassium chlorate.       av.oz.         Z.       Autoritation chlorate.       av.oz.         X.       Shellac.       av.oz.         X.       Autoritation chlorate.       av.oz.	4 12 13752 245 D.
Shellac.       av. oz.         Potassium chlorate.       av. oz.         Ammonia-copper sulphate.       av. oz.         VIIII.       Copper sulphate.       av. oz.         Calcium carbonate.       av. oz.         Potassium chlorate.       av. oz.         Sulphur       av. oz.         IX.       Shellac.       av. oz.         Potassium chlorate       av. oz.         Copper ammonia sulphate.       av. oz.         X.       Potassium chlorate       av. oz.         X.       Potassium chlorate       av. oz.	4 12 13752 245 D.
Shellac.       av. oz.         Potassium chlorate.       av. oz.         Ammonia-copper sulphate.       av. oz.         VIIII.       Copper sulphate.       av. oz.         Calcium carbonate.       av. oz.         Potassium chlorate.       av. oz.         Sulphur       av. oz.         IX.       Shellac.       av. oz.         Potassium chlorate       av. oz.         Copper ammonia sulphate.       av. oz.         X.       Potassium chlorate       av. oz.         X.       Potassium chlorate       av. oz.	4 12 13752 245 D.
Shellac.       av.oz.         Potassium chlorate.       av.oz.         Ammonia-copper sulphate.       av.oz.         VIII.       Copper sulphate.       av.oz.         Calcium carbonate.       av.oz.         Potassium chlorate.       av.oz.         Sulphur       av.oz.         IX.       Shellac.       av.oz.         Potassium chlorate       av.oz.         Copper ammonia sulphate.       av.oz.         X.	4 12 13752 245 D.
Shellac.       av.oz.         Potassium chlorate.       av.oz.         Ammonia-copper sulphate.       av.oz.         VIII.       Copper sulphate.       av.oz.         Calcium carbonate.       av.oz.         Potassium chlorate.       av.oz.         Sulphur       av.oz.         IX.       Shellac.       av.oz.         Potassium chlorate       av.oz.         Copper ammonia sulphate.       av.oz.         X.       Potassium chlorate       av.oz.         X.       Potassium chlorate       av.oz.	4 12 13752 245 D.

## THE STANDARD FORMULARY.

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-	-		
2	v	1	

Copper oxideav.oz. 1
Sulphurav.oz. 2
Potassium chlorateav.oz. 3
Potassium nitrateav.oz. 4
-D.

## Fire, Brilliant Stars.

Potassium	nitrate.	 	 			.av.oz.	8
Sulphur							
Black antin	nony	 4.4	 	22		.av.oz.	2

Make this into a stiff paste with this solution:

Diluted acetic acid fl.oz. 4	
Alcoholfl.oz. 7	

Form into small pieces, and while still moist roll in meal gunpowder.

## Fire Crimson.

1.						
	Strontium	nitrate	a.c.	 	 .av.oz.	17
	Sulphur			 	 .av.oz.	51/2
	Charcoal,	willow		 	 , av. oz.	11/2
	Potassium	chlorate	e	 	 av.oz.	1
11	ι.					
	Potassium	chlorate	e	 	 .av.oz.	2
	Strontium					

1 Orassium				
Strontium	nitrate.	 	 av.oz.	13
Charcoal		 	 av.oz.	1
Shellac		 	 av.oz.	4

## Fire, Golden Rain.

#### I.

Potassium nitrate av.oz.	8
Gunpowderav.oz.	8
Sulphurav.oz.	
Charcoalav.oz.	2
Lampblackav.oz.	1

Mix and fill into paper tubes.

#### II.

Potassium nitrate	3
Sulphurav.oz. 4	ł
Gunpowderav.oz. 4	ŧ
Charcoalav.oz. 1	Ľ
Lampblackav.oz. 1	l

## Fire, Green.

Potassium chlorateav.oz.	4
Barium nitrateav.oz.	
Sulphurav.zo.	i.

Boric acid may be substituted for the barium nitrate.

#### II.

Barium nitrateav.oz.	
Potassium chlorateav.oz.	
Shellacav.oz.	4

Boric acid may be substituted for the barium nitrate.

II.
Barium nitrateav.or. 4 Milk sugarav.or. 4
Milk sugar
V. —D
Barium nitrate
Milk sugar 2
Plack antiment
Black antimonyav.oz. h Sulphurav.oz. 3 Potassium chlorateav.oz. 3
Barium nitrateav.oz 13
ΓI.
Potassium chlorateav.oz. 2 Barium nitrateav.oz. 10 Sulphurav.oz. 5
7II.
Arsenic
Charcoal, wood
Sulphur
Barium nitrateav.oz. 19
VIII.
Barium nitrateav.or. 8 Potassium chlorateav.or. 4
Sulphur
Charcoalav.or.
Fire, Lilac.
Potassium chlorate
Shellacav.or 8
Chalk
Fire, Orange Red.
Chalk
Sulphur av.oz.
Potassium chlorateav.oz. 18
Fire, Purple.
Copper sulphideav.oz. 1
Strontium nitrate
Potassium chlorateav.oz. 15
Shellac av.oz. a
I.
Black antimonyav.oz. 14 Copper oxide
Sulphur 6
Potassium nitrateav.oz. 6 Potassium chlorateav.oz. 18
Fire, Red.
Constitute alterate
Strontium nitrateav.or. 12

II.	II.
Strontium oxalateav.oz. 1	Alu
Lycopodiumav.oz. 1	Pota
Milk sugarav.oz. 4 Potassium nitrateav.oz. 4	Pot
Potassium chlorateav.oz. 13	III.
-D.	Cha
III.	Prej
Strontium nitrateav.oz. 8	Sulp
Sugarav.oz. 4	Pota
Potassium chlorateav.oz. 1 IV.	rou
Potassium chlorateav.oz. 4	IV.
Shellacav.oz. 4	Stro
Strontium nitrateav.oz. 12	Pota
V.	Sulp
Lycopodiumav.oz. 1 Strontium nitrateav.oz. 1	Cop
Milk sugarav.oz. 4	V.
Potassium nitrateav.oz. 12	Pot
VI.	Pota
Charcoal, woodav.oz. 1/2	Shel
Black antimony,av.oz. 1 Potassium chlorateav.oz. 1 ½	Cha
Sulphurav.oz. 21/2	Fire,
Strontium nitrateav.oz. 11	I.
—D.	Stea
VII.	Bari
Charcoal, woodav.oz. 1/2	Mill
Potassium chlorateav.oz. 1½ Sulphurav.oz. 3	Pota
Strontium nitrate av.oz. 91/2	1
—D.	II.
VIII.	Stea
Strontium nitrateav.oz. 16 Potassium chlorateav.oz. 4	Sulp
Potassium chlorateav.oz. 4 Flaxseed, groundav.oz. 4	Pota
This is a cheap red fire for parades.	
	III.
IX.	Pota
Shellac	Sulp
Magnesium metal, powderav.oz. 1/2	IV.
Melt the shellac, add the strontium nitrate;	Blac
mix well; allow to cool, powder, and add the	Sulp
magnesium.	Pot
This makes a slow burning and very bril-	V.
liant fireD.	Pota Cha
Fire Dose	She
Fire, Rose.	VI.
Potassium nitrateav.oz. 8 Corn mealav.oz. 2	She
Charcoal	Bari May
Fire, Violet.	
I.	To
Calcium carbonateav.oz. 2	added,
Malachiteav.oz. 2	and th
Sulphur	This ing lig
26	ing ng

Alumav.oz. 3
Potassium carbonateav.oz. 3 Sulphur
Sulphur
III.
Charcoalgr. 90 Prepared chalk av oz 4
Prepared chalkav.oz. 4 Sulphurav.oz. 4
Potassium chlorateav.oz. 5
Potassium nitrate av.oz. 6
-D,
IV.
Strontium nitrateav.oz. 4
Potassium chlorate av.oz. 9
Sulphur av.oz. 5
Copper carbonateav.oz. 1
Calomelav.oz. 1 V.
V. Potassium nitrate av.oz. 12
Potassium chlorateav.oz. 12
Shellac av.oz. 8
Chalk av.oz. 8
Charcoal av.oz. 1
Fire, White.
L
Stearic acid av.oz. 1
Barium carbonate av.oz. 1
Milk sugarav.oz. 4
Potassium nitrateav.oz. 4 Potassium chlorateav.oz. 13
-D.
п. —
Stearic acidav.oz. 1
Sulphurav.oz. 1
Black antimonyav.oz. 3
Potassium nitrate, av.oz. 6
—Н.
III.
Potassium nitrateav.oz. 10
Sulphur
IV.
Black antimonyav.oz. 1
Sulphur av.oz. 4 Potassium nitrate,av.oz. 11 ½
V. Potassium nitrateav.oz. 16
Charcoalav.oz. 2
Shellac av.oz. 4
VI.
Shellacav.oz. 3
Barium nitrateav.oz. 18
Magnesium metal, powderav.oz. 1
To the shellos melted the barium i

To the shellac, melted, the barium is added, and the mixture, when cold, powdered and the metal added.

This makes a very brilliant and slow-burning light.

## THE STANDARD FORMULARY.

## VII.

Potassium nitrateav.oz. 6
Antimony sulphideav.oz. 2
Shellac
Sulphurav.oz. 1

## Fire, Yellow.

I.

Sodium nitrateav.oz. Potassium chlorateav.oz. Shellacav.oz.	
I.	

Sodium oxalateav.oz.	
Shellacav.oz.	)
Potassium nitrate	
Potassium chlorateav.oz. 11	L

## Flavor for Tobacco.

Cascarilla barkgr.	120
Valerian rootav.oz.	1/2
Valerian rootav.oz. Tonka beangr. Benzoin gr.	120
Benzoingr.	60
Stems Havana tobaccoav.oz.	2
Compound spirit of lavenderfl.dr.	2
Acetic etherfl.dr.	2
Alcohol, sufficientfl.oz.	16

Reduce to a coarse powder, and exhaust with the alcohol, either by maceration or percolation, and lastly add the lavender and ether, and filter through paper.

## Flash-Light Powders.

These powders are employed by photographers for taking negatives in imperfectly lighted places, or in the absence of good daylight. When blown into an alcohol flame these powders suddenly flare up, producing an intense actinic light. Finely pulverized magnesium (metal) alone may be used for this purpose; some claiming for this the best results, but it is also combined with gun cotton in the proportion of 2 parts to 1 of the latter. Other combinations of magnesium are also used. Of late, aluminium metal is displacing magnesium, it being more economical and comparatively smokeless, while magnesium produces a dense and persistent smoke.

It must be remembered that these powders are very explosive and must be prepared only in small quantities, as wanted.

I.

II.
Magnesium powderav.or.4 Potassium permangranateav.or.4 Barium peroxideav.or.2
III.
Magnesium powderav.oz. 3 Antimony sulphideav.oz. 1 Potassium chlorateav.oz. 6
IV.
Aluminium
v.
Aluminium powderav.oz. 2 Sugar

## Flavor for Cigars.

Tincture benzoin compfl.oz.	5
Balsam of Peru	60
Castoreumgr.	30
Tonka beansav oz	1
Valerian rootav.oz	. 1/2
Carbonate of magnesiagr.	120
Alcoholfl.oz.	12
Waterfl.oz.	8

Reduce the valerian, castor and tooks is coarse powder; macerate with the menstrum of alcohol and water for two or three weeks, strain; add the tincture, balsam and magnesia; mix and filter through paper.

## Fire Extinguisher.

I.

Potassium nitrate, powder av.or.	15
Sulphur, powder	9
Charcoal, powderav.or	1
Colcothar of rougeav.or	¥

Dry them thoroughly, then mix them, and fill into round pasteboard boxes holding <sup>3</sup> pounds. Through an orifice in the side a fuse or quick-match is introduced, which extends some 4 inches inward and about 6 inches outward. The latter end is fastened on the outside of the box, and a strip of rel paper pasted upon it, bearing the inscription "light here."

These extinguishers are intended for as in closed rooms, and act automatically. The acts by absorbing oxygen.-D.

## Fire Extinguishers, Liquid.

II.
Calcium chloride, crude av.m. 4
Sodium chlorideav.or.
Waterfl.mt 15
The resulting solution is thrown into

MISCELLANEUU.	STRETARATIONS. 400
fire by a hand-pump. The burning portions become incrusted and cease to be combusti-	IV. Sodium tungstateav.oz. 15
ble.—D.	Common soapav.oz. 2 Waterfl.oz. 80
III.         calc'um chloride.         av.oz. 20           Salt.         av.oz. 5         water.         fl.oz. 75	Dissolve and immerse fabrics in the warm solution.—D. V.
IV. Fill thin spherical bottles with solution of calcium chloride, ammonium chloride, or borax.	Ammonium phosphateav.oz. 5 Common soapav.oz. 2 Waterfl.oz. 90
Fireproofing Fabrics, Wood, etc.	Use like the preceding.—D. VI. For starching curtains:
While fireproofing materials are used and formulas are here given, it should not be understood that the articles "fireproofed "	Sodium tungstateav.oz. 2 Boraxav.oz. 2 Starchav.oz. 6
really cannot burn; the preparation will sim- ply hinder the rapid progress of the fire so as	Mix and use like ordinary starch for starch- ing.—D.
to permit of its easy and rapid extinction. I. For light fabrics:	VI. For application to stage (theatrical) accessories:
Ammonium sulphateav.oz. 4 Ammonium carbonateav.oz. 1½ Boraxav.oz. 1 Boric acidav.oz. 1½ Starchav.oz. 1½	Ammonium chloride
Waterfl.oz. 48 Dissolve the salts, which should be pure	and add the chalk,-D.
and particularly free from iron, in a sufficient	VII. For application or coating for wooden
quantity of the water. Add the starch, pre- viously made into a jelly, with boiling water. Impregnate the fabric with the solution, dry	implements, partitions, etc.: Zinc oxideav.oz. 20 Waterfl.oz. 10 Solution of sodium silicatesufficient
it and iron it. In place of 1 av.ounce of starch about one-quarter the quantity of gela- tin or dextrin may be used. A quart of the solution will be sufficient	Mix the zinc oxide, water and 10 av.ounces of the solution to a smooth, mixture then add enough more of the solution to make a thin
for about 16 yards of material. II. For wood and heavy fabrics, ropes, straw hats, mats, etc., the following is recom- mended:	paint. This makes a white application, a yellow one may be produced by substituting yellow ocher for the zinc oxide.
Ammonium chlorideav.oz. 8 Boric acidav.oz. 3 Boraxav.oz. 1 Waterfl.oz. 48	When these mixtures are applied they be- come of strong hardness and resist the ele- ments. They will serve excellently, therefore, for all external as well as internal purposes.
Immerse the articles for 15 or 20 minutes	-D.
in the solution, heated to 100 degs. C.	Floor Polish or Wax.
III. For paper the following may be used:	I. V. Warman R
Ammonium sulphateav.oz. 4           Boric acidav.oz. 1½           Boraxav.oz. 1½           Waterfl.oz. 48	Yellow waxav.oz. 8 Potassium carbonateav.oz. 1 Oil of turpentinefl.oz. 1 Waterfl.oz. 32
Heat to 50 degs. C., and immerse the paper.	Heat the wax and water to boiling; add the potassium carbonate; boil another minute;
If this minters he added to stand make	memory the manual from the free add the oil

If this mixture be added to starch paste, the latter may be applied to fabrics.-D. and stir until cold. If the floor is well pre-

served, 16 fluidounces more of water may be added. A brown color may be produced by adding sienna or umber, and a very dark brown, by the further addition of lampblack. -D.	VIII. White wax, powderav.oz 10 Shellac, powderav.oz 10 Resin powderav.oz 10 IX. To about 4 av.pounds of pare fin,
II. Yellow waxav.oz. 8 Potassium carbonateav.oz. 4 Waterfl.oz. 52 Heat the wax in an iron vessel with 40 fluidounces of water until the wax is melted,	melting at about 40 degs. C., add 1 suid- ounce of oil of mirbane, and allow to cocol. In using melt the wax, and with an old brush sprinkle the melted mixture over the floorD.
then add the potassium carbonate dissolved in the remainder of the water and boil together until solution is effected. If it be desired to color the polish, add ½ to 1 av. ounce of annatto previously dissolved in a	Flea Exterminators. (Flea Powders Liquids, or Solutions.)       and         I.       Castile soap, powder,, av.oz.       8         Starch, powder,, av.oz.       8         Oil of pennyroyal,, fl.dr.       1
little alcohol.—H. III. Yellow waxav.oz. 5 Paraffin waxav.oz. 2	II. Naphthalin, fine powderav.oz. 4 Starch, powderav.oz. 1_3 If desired, this mixture may be col re
Stearic acid	gray by the addition of 10 grains of la mp black. III. Talcum, powderav.oz. Zinc oxideav.oz.
sienna, thoroughly triturated, with linseed oil varnish. Then add, with a constant stirring (remote from fire), the oil and benzin.—H. IV.	Starch, powderav.oz
Yellow wax	bedclothes. The powder should not be kept longer than a week. IV. Oil of clovesfl.dr = 4 Cologne waterfl.oz = 5 Alcoholfl.oz = 7 Mix and filter.—H.
surface, add the potassium carbonate dis- solved in 10 fluidounces of water; heat for 20 minutes more, and then add the remainder of the water.	Mentholgr45 Comphor
V. Spermaceti	Oil of cinnamon
fine, mix with the talcum, and pass through a No. 10 sieve. VI. Stearin, powderav.oz. 20 Yellow wax, powderav.oz. 5 Stear number 2	Mix and filter. VI. An ingenious plan which has been rec- ommended to rid a house of fleas, is the fol- lowing: Place on the floor of each room several
Soap, powderav.oz. 2 VII. Stearin, powderav.oz. 16 Vellow wax, powderav.oz. 4	sheets of sticky fly paper with pieces of fresh meat in the center of each sheet. Jumping for the meat the fleas are caught on the paper.

#### Fly Exterminators.

Fly exterminators are of different kinds, such as papers, powders, pastilles, etc. The papers which are now so largely employed are of several varieties, viz.: sticky, poisonous or arsenical, and non-poisonous. Full directions are given below for making these preparations.

#### Fly Lime.

What is known as "fly lime," which is sold largely in Europe, consists of the mixtures used in the formulas for sticky fly paper, spreading upon paper. These mixtures are spread upon plates or saucers, which are then set about the room, or are painted upon sticks, which are then hung around in convenient places.

# Fly Paper, Arsenical or Poison.

Potassium	arseniate,	crystalav.oz.	1
		av.oz.	
Water		fl.oz.	48

Dissolve and saturate heavy unsized paper in the solution; afterward hang it up to dry on strings. The paper should be stamped or printed as poisonous previous to immersion in the liquid. Potassium arseniate should be employed, or this prepared from arsenic acid, instead of the arsenite—the form officinal in Fowler's Solution. While arsenic acid is more readily partaken of by flies, it has the further advantage of being non-poisonous to the hands.—D.

#### П.

White a	arse	nic.,		 gr.	120
Potassi	um	carb	onate.	 .av.oz.	
Sugar .					
Water				 , .fl.oz.	32

Mix; dissolve, and saturate paper as in the preceding.

#### Fly Paper, Bichromate.

Potassium bichromateav.oz.	1
Sugarfl.dr.	3
Oil of black pepperfl.dr. Alcoholfl.oz.	11/2
Alcoholfl.oz.	2
Waterfl.oz. 1	12

Mix thoroughly; macerate for several days, and filter off the liquid. In this solution soak unsized absorbent paper, allow to dry, and again soak and allow to dry.

#### Fly Paper, Cobalt.

Tartar emeticgr. 45	
Cobalt chlorideav.oz. 1/2	
Quassia chipsav.oz. 7	
Tincture of long pepper (1 in 4).fl.oz. 4	
Waterfl.oz. 20	

Mix, macerate for 7 days, agitating occasionally, and filter. Prepare the paper like the preceding.

#### Fly Paper, Non-Poisonous.

As a so-called non-poisonous fly paper may be used either the bichromate, cobalt or quassia fly papers.

#### Fly Paper, Quassia.

Quassia	chips		 		,	 •	av.oz. 8
							, .av.oz, 4
Water			 	• •			. sufficient

Pour 32 fluidounces of water over the quassia chips, allow to stand over night, strain and boil the liquid down to 16 fluidounces; then boil the chips with 16 fluidounces of water until 8 fluidounces remain. Mix well together, allow to stand for several days; filter, soak strips of absorbent paper in the filtered liquid and dry the slips.

## Fly Paper, Sticky.

Resin		 	.av.oz. 6
Lard oil		 	fl.oz. 2
Turpentine, (	anada	 	.av.oz. 1

Melt the resin upon a water bath, add the other ingredients and spread upon paper. The paper should be ordinary printing paper, which has previously been "sized," by applying a coating of a thin solution of white glue by means of a sponge, and hung up to dry. The sticky compound is put on whilst warm by means of a brush, and the paper is then folded together. The proportion of resin must be varied to suit the changes in the temperature.

#### II.

Resin.	in clean piecesav.oz. 8	
Castor	oilav.oz, 4	
Prepar	e like the preceding.	
III.		

Resin.		 	av.oz. 8
			av.oz. 2
Castor	oil	 	av.oz. 2

Prepare like the preceding.

II.

IV.														
Resin		•	 							•			.av.oz. 4	
Castor oil		•	 										.av.oz. 2	
Syrupy glucose	•	• •	 ••	•	•	•	•	•	•	•	•	•	.av.oz. 1	

Melt the resin, add the castor oil, incorporate the glucose, and spread the mixture upon heavy paraffined paper or upon sized paper.

v.

Resinav.oz.	6
Yellow waxgr. Linseed oilfl.oz.	90

Melt together and strain. It may be made of a handsome color by adding 45 grains of red saunders.—D.

The wax improves the consistence while its odor, being suggestive of honey, is very attractive to flics. It may be increased, if desired, to 180 grains.

## Fly Pastilles.

Potassium nitrate, powderav.oz.	11/2
Mucilage of tragacanthfl.oz.	2.
Insect powderav.oz.	2
Althæa, powdergr.	125
Tragacanth, powdergr.	

Intimately mix the potassium nitrate with the mucilage; also mix the other ingredients together, then incorporate the powdery mixture with the paste, divide the whole into pastilles weighing about 30 grains, and dry at a temperature of 20 to 25 degs. C. The pastilles may be bronzed or gilded, if desired. -D.

## Fly Pencils.

Eucalyptol(or oil of eucalyptus).fl.dr.	11/2
Oil of laurel, essential,	20
Petrolatumav.oz.	23,
Paraffin waxav.oz.	2

To the paraffin previously melted the oils should be added and the mixture then molded into sticks.—D.

This is used for penciling the body exposed to the attacks of flies.

## Fly Powders.

av.oz. 4	g pepper
av.oz. 4	ssia
av.oz. 8	ar
fl.oz. 4	ited alcohol
av.oz. 4 av.oz. 8 fl.oz. 4	ar

The solids should be in very fine powder, mixture of salts may be recovered should be well mixed, and then mixed with manner and used over again.—D.

the diluted alcohol, dried, and reduced  $t = \int_{0}^{the} powder.$ 

This powder is employed by sprin Ling upon a saucer.—D.

4.	
Crude arsenic (so called "co-	4.2
balt '')av.oz.	12
Sugarav.oz.	4

Each should be in fine powder and she ould . be well mixed.

III.

Eucalyptol (or oil of eucalyptus).fl.oz.	1
Orris rootav.oz.	4
Starchav.oz. 🗖	10
Reduce the drugs to fine powder and	mix

with the oil.-D.

## Fountains, Charging of.

This table indicates the amounts of sod imbicarbonate and sulphuric acid to be usec in charging soda fountains.

To produce a pressure of 8 atmospherer res, equaling about 120 pounds to the squ are inch:

Quantity of water.	of sodium bicar- bonate.	of sulphur in acid.
10 gallons	86 av.oz.	50 av.oz
20 "	198 "	71 "
80 **	161 **	93 **
40 **	198 **	118 "
50 **	236 **	18716 "

For	9	atmospheres-about 135 lbs. to	the
square	inc	ch.	

10 gallons	96 av.oz. 184 "	6514 av.
80 **	171 "	100 ***
40 " 50 "	209 **	122 "
50 **	246 **	144 "

The amounts of sulphuric acid are some what in excess of the quantity required to decompose the soda.

## Freezing Mixtures.

In using freezing mixtures, the salts should be in very fine powder and should be perfectly dry. The vessel should previously be cooled, and cool water should be employed. If the mixture be produced from one salt and water, the former may be recovered by evaporation, and after thorough drying and powdering, it may be used over again. A mixture of salts may be recovered in the same manner and used over again.—D.

Ammonium	n chloride.						4	2	.av.oz. 3	
Potassium	nitrate								.av.oz. 1	
Potassium	chloride		.,	• •	*	•		•	.av.oz. 6	

Dry each substance and powder, and then to the mixtures add 10 fluidounces of cool water.

The temperature depression amounts to 30 degs. C.-D.

#### II.

Dry the ammonium and potassium nitrate,

reduce to powder, add the sodium sulphate, and then mix with 11 fluidounces of cold water.

The temperature depression amounts to 25 degs. C.-D. and H.

#### III.

Ammonium	nitrate,	powderav	.oz. 10
Cold water.		fl	.oz. 10

The temperature depression amounts to 30 degs. C.-D.

#### IV.

Sulphuric acidfl.oz.	10
Water fl.oz.	
Sodium sulphate, powderfl.oz.	5

Mix the acid and water, allow the mixture to cool to the temperature of the atmosphere, and add the sodium sulphate.

Sodium sulphate, crystal.....av.oz. 6 Mix the acid and water, allow to cool, and add the sodium sulphate.

It depresses temperature from 10 degs. C. to 125 degs. C.—H.

.

Zinc sulphate.....av.oz. 4 Muriatic acid.....fl.oz. 4

The temperature depression is from 10 degs. C. to 17 degs. C.-H.

#### Fuller's Earth, Improved.

Equal parts fuller's earth and talcum. Mix and perfume.

## Fungicides.

I.

The term fungicide signifies an agent to destroy fungi or lower forms of parasites. The particular parasites referred to in this connection are such as attack plants, for example, blights, rots, smuts, mildew, etc. Some of the formula under the heading "Insecticides for Agriculturalists," may also be employed as fungicides.

Potassium sulphide(sulphurated

potassa	) ,	 	 	* *	 	 	av.lb.	1
Water			 		 	 	gal.	30

Dissolve the potassium sulphide in the water, and use. This formula is very efficient for gooseberry and currant mildew. Two or 3 ounces of paris green may be added to each 30 gallons of this mixture. II.

Dissolve the sulphate in the water, and use. This solution should never be applied to green foliage. Its proper use is as an early spring wash for the trunk and branches of trees and vines to remove lichens and kill disease spores. Four or 6 ounces of paris green may be àdded to each 45 gallons of the above solution. For stone fruits use only 2 or 3 ounces of paris green.

#### III.

Copper carbonateav.oz.	8
Ammonium carbonate av.lb.	
Or, ammona waterfl.oz. 3	
Watergal. 44	

Dissolve the ammonium carbonate in half a gallon of boiling water and pour it upon the copper carbonate. Shake or stir vigorously until all is dissolved. If the ammonia water is used, simply pour it upon the copper carbonate in the same way. Dilute to 45 gallons, and use at once. If kept tightly corked, the undiluted solution will keep for a long time. This is a very efficient fungicide, adheres well to the foliage, and does not spot the fruit. It should not be used upon the peach, plum or cherry. Arsenites should not be added to this solution.

Copper sulphate	6
Fresh lime (or sodium carbon- ate)av.lb.	414
Molasses H.oz.	32
Waterga	<b>il.</b> 45

Dissolve the copper sulphate in sufficient water, using a non-metallic vessel. Use good stone lime, well burnt. Slake the lime or dissolve the soda in 2 gallons of water in a separate vessel. Dilute the molasses with a gallon of water, and stir it into the lime wash or soda solution. After these have been thoroughly mixed add the whole, with vigorous stirring, to the copper sulphate solution. The mixture thus produced should be diluted to 45 gallons and used at once, as it deteriorates on standing. For the earlier treatments, or where the disease is bad, less water may be used, but, as a rule, the full amount will be best. For peach and plum foliage the mixture should never be made stronger than indicated. For the earlier treatments it will be better to use lime instead of soda. and to destroy insects, add to each 45 gallons 3 or 4 ounces of paris green or london purple. The latter arsenite cannot be safely used in the soda mixture. But this has the advantage of not staining the fruit. When an arsenite is used, it should be added to the lime and molasses solution before this is added to the copper sulphate. ' This mixture is very adhesive to the foliage, and fewer treatments will be required than when the plain Bordeaux mixture is used.

#### Eau Celeste.

Copper su	lphateav.lb.	11
Water		38
Ammonia	water pints	11

## Eau Celeste, Modified.

Copper	sulphateav.lb.	4
Sodium	carbonateav.lb.	5
Ammon	ia waterpints	8
	gal.	

Dissolve the copper sulphate in sufficient water, using a non-metallic vessel. Dissolve the soda in sufficient water in a separate vessel. Mix these two and then add the am-

monia. Dilute to 45 gallons and use within half a day. It does not keep well. This is a very acrid mixture, and in the hands of careless persons may do much damage to the foliage. It should never be used upon the peach, plum or cherry. It gives best results upon the apple. It does not stain the fruit. Arsenites cannot be safely added to this mixture.

## Bordeaux Mixture.

Copper sulphate	Jb.	6
Fresh lime	.Ib.	6
Water		

Dissolve the copper sulphate in a wooden or earthen vessel, using 4 or 5 gallons of water, which, if hot, will act quicker. In a separate vessel slake the lime and rub until all lumps are broken. Then strain and stir slowly into the copper solution. Dilute and use as'soon as possible. The mixture should not stand over 20 hours, as it tends to spoil. Where a good quality of lime is used, 4 pounds will satisfy 6 pounds of copper sulphate, but it is best to use plenty of lime, as any free sulphate will burn the foliage. Four ounces of paris green may be added to each 45 gallons of this liquid for all except peach and other stone fruits. For these use only 2 ounces. This makes the best and safest combined insecticide and fungicide for general use. Its chief disadvantage is its spotting the fruit and its liability to be washed off the foliage by rains .

## Furs, Preserving of.

Carbolic acidfl.dr.	6
Oil of clovesfl.dr.	
Oil of mirbanefl.dr.	
Oil of lemonfl.dr.	
Alcoholfl.oz.	32 .

#### Mix and dissolve.

The articles are moderately sprinkled with the fluid. One sprinkling will suffice for the summer, provided they are stored in closed boxes or closets, but cloth in storerooms will require to be sprinkled twice.

## Furniture Cream.

Potassi	um carbonateav.oz. 1
Soft or	green soap av.oz. 2
	wax
Water	fl.oz. 64

Mix and boil the whole until a uniform cream results.

IV.

II.

II.

Yellow waxav.oz.	31/2
Potassium carbonategr.	160
Oil of turpentinefl.dr.	
Oil of lavender	
Watersuffic	tient

Boil the wax with 16 fluidounces of water over a direct fire, and add to the hot liquid the potassium carbonate. Now remove from the fire, add the two oils, stir until cool, and add enough water to make 32 fluidounces.

In using this cream, apply lightly on a woolen cloth, and then rub with a piece of linen until the furniture has acquired a polish.-D.

III.

White castlie soapgr.	270
White waxav.oz.	41/2
Oil of turpentinefl.oz.	21
Waterfl.oz.	
Potassium carbonategr.	270

Melt the soap in water with the aid of a gentle heat, then add the potassium carbonate and white wax. When thoroughly melted, add gradually the turpentine, and shake thoroughly.

#### IV.

Yellow waxav.oz	
Yellow soap av oz	. 2
Waterfl.oz	
Linseed oilfl.oz	
Oil of turpentinefl.oz	. 4

Mix the wax, soap and water; boil until of the proper consistence, and add the oils.

V.

Yellow	wax		 	 av.o:	<i>t</i> . 3
Linseed	oil,	boiled	 	 fl.o.	2. 16

Dissolve the wax in the oil by the aid of I heat.

VI.

Yellow waxav.oz.	31/2
Castile soapgr.	60
Oil of turpentinefl.oz.	
Water, boiling fl.oz.	
Potassium carbonategr.	

Melt the wax, add the oil, dissolve the soap and potassium carbonate in the water, and mix the two liquids, stirring until cold.

#### Furniture Paste.

Yellow waxav.oz.	
Alkanet, coarse powderav.oz.	1/2
Oil of turpentinefl.oz.	16

Macerate the alkanet in the oil for 24 hours, strain and add the colature to the wax Mix and dissolve.

previously melted. The alkanet may be omitted, if desired.

Venice turpentine ..... av.oz. 6 Linseed oil .....fl.oz. 16

Mix by the aid of heat. The mixture may be colored like the preceding by means of alkanet root.

111.

Yellow waxav.oz.	16
Linseed oil, rawfl.oz.	4
Oil of turpentinefl.oz.	4
Alkanet root	

Mix the wax, linseed oil and alkanet, heat moderately until sufficiently colored, then remove from the fire, and add the oil of turpentine.

IV.

Vellow wax.....av.oz. 8 Oil of turpentine .....fl.oz. 9

Melt the wax, and add the turpentine. When the mixture has solidified it may be cut into rectangular pieces.

In using, the paste should be rubbed over the furniture, after which a cloth moistened with oil of turpentine should be passed over the latter, and the polishing finished by friction with a soft brush.-D.

## Furniture Polishes, Liquid.

I.	
Linseed oil, rawfl.oz.	32
Alcoholfl.oz.	8
Diluted acetic acidfl. oz.	8
Oil of turpentinefl.oz.	82
Solution of antimony chloridefl.oz.	2
II.	
Linseed oil, rawfl.oz.	40
Alcoholfl.oz.	4
Diluted acetic acidfl.oz.	16
Solution of antimony chloride fl.oz.	2
Ammonium chlorideav.oz.	1
Spirit of camphorfl.oz.	1

Add first the antimony solution, then the spirit of camphor and acid, and lastly the ammonium chloride to the oil, and shake well after each addition.

## III.

Alcohol	fl.oz.	10
Linseed oil, raw	fl. oz.	10
Sandarac	gr.	120
Diluted acetic acid		
Nitric acid	fl.dr.	4

## THE STANDARD FORMULARY.

IV.	XI.
Linseed oil, rawfl.oz. 12 Alcoholfl.oz. 4 Diluted acetic acidfl.oz. 4 Hydrochloric acidfl.oz. 1	Oil of tur Oil of am Olive oil. Oil of lav
Spirit of lavenderfl.dr. 4	A cotton a
V.	ish, which is
Linseed oil, rawfl.oz. 16 Diluted acetic acidfl.oz. 6 Solution of antimony chloridefl.oz. 2 White resinav.oz. 14	latter is then ton rags and XII.
Mix and dissolve by agitation.	Shellac
VI.	Resin Alcohol
Oil of turpentine	Oil of turp Linseed oi Aniline re Dissolve t
Mix and dissolve by agitation.	the aniline. turpentine, a
VII.	two solutions
Linseed oil, rawfl.oz. 12 Oil of turpentinefl.oz. 4 Diluted acetic acidfl.oz. 4 Hydrochloric acidfl.oz. 1 Alcoholfl.oz. 1 Acacia, powderav.oz. 1	XIII. Linseed of Oil of turp Kerosene. Oil of amb
VIII.	XIV.
Linseed oil, rawfl.oz. 12 White of 2 eggs. Old alefl.oz. 10 Solution of antimony chloridefl.oz. 1	Linseed of Diluted ac Oil of turp Muriatic
IX.	XV.
Shellac       av.oz. 4         Resin       av.oz. 2         Venice turpentine       av.oz. 34         Alcohol       fl.oz. 12	Linseed of Alkanet ro Digest tog
Mix and shake occasionally until dissolved,	XVI.
then set aside in a warm place for a few weeks and filter.	Shellac Alcohol Linseed oi
X. Resin of guaiacav.oz. 1 Benzoinav.oz. 1 Shellacav.oz. ¼ Linseed oil, rawfl.dr. 10 Benzinfl.dr. 4 Alcohol, or wood alcoholfl.oz. 24	Oil of turp Ether Ammonia Dissolve to the other ing XVII.
Mix and dissolve. The polish is applied with a sponge or brush, and the object is, let stand for a half	Alcohol Oil of turp Damar var Linseed oi
hour. A linen cloth moistened with oil is	Acetic acid
then used as a rubber, and a brilliant polish is obtained which is said to be very lasting	XVIII.

and is unaffected by water or any substances

which usually injure varnish.

410

Oil of turpentine	fl.oz. 5
Oil of amber	fl.oz. 5
Olive oil	
Oil of lavender	fl.dr. 2

A cotton rubber is saturated with this polish, which is thus applied to the wood. The latter is then well rubbed with soft dry cotton rags and wiped dry.

Shellacav.oz. 1
Resinav oz. 1
Alcohol fl.oz. 8
Oil of turpentinefl.oz. 2
Linseed oil, rawfl.oz. 8
Aniline red gr. 8

Dissolve the shellac in the alcohol and add the aniline. Dissolve the resin in the oil of turpentine, add the linseed oil, and mix the two solutions.

Linseed oil, raw.											.1	fl.oz.	4
Oil of turpentine													
Kerosene													
Oil of amber	•	•	•	• •	•	•	*	-	•	•		a.oz.	1

Linseed oil, rawfl.oz. 1	2
	3
Oil of turpentinefl.oz.	1%
Muriatic acid fl.oz.	3

Linseed	oilfl.or.	16
Alkanet	rootav.oz.	36

Digest together for some time, and strain.

Shellacav.oz.	2
Alcoholfl.oz.	16
Linseed oil, rawfl.oz.	16
Oil of turpentinefl.oz.	
Etherfl.oz,	
Ammonia waterfl.oz.	4

Dissolve the shellac in the alcohol and add ne other ingredients.

Alcohol		 	 		fl. oz. 4
Oil of turpentine .			 		fl.or. 2
Damar varnish					
Linseed oil, raw					
Acetic acid			 	 -	fl.oz. 1

Oil of	turpentine	 	• •	 	 	2	fl.oz. 8
	amber						
Cottor	seed oil			 	 		fl.oz. 8

#### Gilding Powder.

Gold, chloride av.oz.	
Potassium cyanide av. oz.	
Potassium bitartrategr.	
Prepared chalk	5

Mix the ingredients intimately; add water to make a paste; rub with a bit of flannel. The surface must, of course, be thoroughly cleaned.

By substituting silver nitrate for the chloride of gold, a silvering powder will be obtained. To be employed in the same manner.

#### Glass, Cutting of.

The following may be used for cutting glass, bottles, flasks, etc.:

Charcoal, woodav.oz.	1
Potassium nitrategr. 1	0
Tragacanthgr. 1	0
Benzoingr.	5

Reduce each to fine powder, add enough mucilage of tragacanth to form a mass, and roll this out into cylinders of about the thickness and length of a lead pencil.

One end of this cylinder may be ignited and passed over the flask, bottle, etc., wherever the crack or cut is to be made.

Instead of the above, the following may be employed:

Dissolve 1 av.ounce of lead acetate in 7 fluidounces of water; saturate blotting paper with this solution, then dry, cover one surface of the paper with paste containing 10 per cent of potassium nitrate, roll this lightly over a knitting needle and dry. This may be used like the preceding.

## Glass, Mirrors, etc., Polish for.

Moisten calcined magnesia with pure benzin so as to form a paste sufficiently wet that when pressed some of the benzin will exude. The articles are cleansed by taking this mixture on cotton (not cotton cloth) and rubbing over the glass until dry and all powder is rubbed off.

See also "Window Polishing Paste."

## Glove Cleaner.

See also "Benzin Jelly," "Cleansing Cream,"" Cleansing Liquid," "Stains, Removal of," "Gloves, Dry Process for Cleaning," etc.

Solution of chlorinated soda, fl.oz. 1	
Ammonia waterfl.oz.	
Soap, powder av.oz. 1	
Waterfl.oz. 2	0

Make into a soft paste, and rub on the gloves with a flannel. \*

	a second and		-
Oil of	turpentine	 	fl.oz,
Benzol		 	fl.oz.
		0.0000000	

#### III.

II.

Castile soap, shavingsav.oz. 12	
Water, hotfl.oz. 8	
Solution of chlorinated sodafl.oz. 8	
Water of ammoniafl.dr. 4	

Dissolve the soap in the water, allow to cool, and incorporate with the solution and ammonia so as to form a smooth paste.

In using, rub a small portion over the glove by means of a piece of flannel, always rubbing in one direction until clean.

## Gloves, Dry Process for Cleaning.

Put the gloves on a clean board, make a mixture of dry powdered fuller's earth and powdered alum, and apply the powder to both sides of the glove with an ordinary stiff brush. Then wipe the powder off, cover the glove with dry bran and brush this off. The gloves, if not very badly soiled, will, by this process, become entirely clean.

Should there be grease stains, remove them with crumbs of toasted bread and powdered animal charcoal, and then rub the glove with a clean woolen rag dipped into the powder of fuller's earth and alum.

#### Glue, Bookbinder's.

Glue,	bes	t.		•			•		,		÷	av.oz. 7
Glyceri	in.			2								.fl.oz. 16
Water.												sufficient

Pour on the glue more than enough water to cover, allow to macerate for several hours, then decant the greater portion of water; apply heat until the glue is dissolved, and add the glycerin. If the mixture is too thick, more water may be added. It may be colored by means of an aniline dye dissolved in alcohol.

#### Glue, Liquid.

The making of so-called "liquid glue" depends on the fact that when gela" or glue is mixed with certain substance

5

the presence of water, the mixture remains	Disso
permanently semi-liquid. The most com-	bath in
mon agents used in this liquefying process	
are acetic and nitric acids, lime and other sub-	warm.
stances also being used.	VII.

The cheaper kinds are made from glue, the better and håndsomer preparations are made from gelatin. Slaked lime. Sugar.

White glue, broken into small

				av. oz.	
Acetic	acid	 	 	av.oz.	8
Nitric	acid	 • • •	 	drops	10

Mix and keep in a wide-mouthed vial, well corked.

Mix the glue and acetic acid in a widemouth stoppered bottle; set in a warm place, agitate frequently until dissolved, and then add the nitric acid.

II.

Glue	4
Waterfl.oz.	10
Nitric acidfl.dr.	4

Boil together for several hours.

## III.

Glue	
Alum	50
Acetic acidfl.oz.	
Waterfl.oz.	18
Alcoholfl.oz.	3

Mix all but the alcohol, digest on a water bath till the glue is dissolved, allow to cool, and add the alcohol.

IV.

Glue, white or brown	av.oz. 51/2
Acetic acid	fl.oz. 51/2
Carbolic acid	. drops 5
Water	

Macerate the glue in 6 fluidounces of water for 12 hours, heat the mixture on a water bath until the glue is dissolved, add to the solution the two acids, and then enough water to make 16 fluidounces.

v.

Chloral hydrateav.oz.	5
Gelatinav.oz.	
Waterfl.oz.	20

Mix; let stand for 48 hours, and decant the clear liquid.

VI.

Glue, best whiteav.c	
Lead carbonateav.c	oz. 1
Alcohol fl.c	
Waterfl.c	oz. 24

Dissolve the glue by means of a water bath in the water, then incorporate the lease compound and the alcohol, and bottle while warm.

VII. This preparation has been callen <u>"</u> 'Syndeticon'':

	limeav.oz.	
Sugar.	av.oz.	6-2-1
Water	fl.oz.	18
Glue	av.oz.	6-2-3

Dissolve the lime and sugar in the waheated to 75 degs. C., decant the clear lique and add the glue, and, after allowing to swagain apply heat until dissolved.

Sugar	w.oz. 5
Glue, best brown	w.oz. 12
Lime, slakeda Water	w.oz. 14
Water	fl.oz. 105 5
Oxalic acid	sufficient at
Carbolic acid	drops 💶 0

In a flask dissolve the sugar in the witter, add the lime, and warm the mixture to a  $e_{m}$ perature of about 75 degs. C. for 3 rays, agitating frequently; then allow to  $c_{00}$ , decant the clear liquid, and to 8 fluidor nees of this liquid add the glue, previously reduced to small pieces; allow to macerate for 3 hours, and then heat in a covered vessel on a water bath for 10 hours, replace the water lost by evaporation, neutralize the lime with oxalic acid, and then add the carbolic acid. -D.

IX. This preparation is also known as "Syndeticon":

Dissolve the calcium chloride in the water, add the glue, macerate until the latter is thoroughly softened, and then heat until completely dissolved.—D.

#### X.

Solution of sodium silicate av.oz.	10
Sugar, powderav.oz.	3
Acacia, powder av.oz.	1
	~

Mix well, adding some water if necessi

Glue, Stick. (Pocket Glue.—Elastic ( —Mouth Glue.)

See "Stick Mucilage."

I.

latter is a variable mixture of grape sugar and dextrine in water.

#### Grafting Wax.

I.

Resinav.oz. 1	
Beef tallowav.oz.	
Oil of turpentinefl.dr.	
Alcoholfl.oz.	5

Melt the resin, add the tallow, stir until homogeneous, remove from the fire, allow to cool somewhat, and add the oil and alcohol, little by little, stirring well with each addition. If in adding the alcohol there is a tendency to lump, carefully warm the mixture until it melts.

It should be kept in closely stoppered bottles, and when used warmed up slightly (if not in a liquid condition or, say, the consistency of molasses). Apply with a brush. A very thin coat only is needed.

#### II.

	Pitch	2
	Lard.,av.oz.	1
1	[I.	
	Yellow waxav.oz.	
	Resinav.oz. Gum turpentineav.oz.	

## Guano, Artificial.

Sodium sulphate, driedav.lb.	1%
Common salt av. lb.	12
Wood ashesav.lb.	4
Ammonium sulphate, common av. lb.	16
Bone dust bushel	1

## Gun Barrels, Staining of.

## I. A.,

Solution of iron chloride fl.oz.	1
Corrosive sublimategr.	180
Copper sulphategr.	
Fuming nitric acidfl.dr.	2
Distilled waterfl.oz.	10
Mix and dissolve.	

#### B.

Potassium sulphidegr. b Distilled waterfl.oz. 1	
Mix and dissolve.	

Clean off the gun barrel with emery paper, brush, apply solution A, subsequently drying ignition of its vapors. Finally, wash the

Glucose .- (Grape Sugar or "Starch Syrup") in a cool place, so that it may occur rather Is in the market as a solid and liquid. The slowly. Repeat this application and drying twice, or oftener if necessary to secure the shade of stain desired, rubbing over thoroughly before each application with a scratch brush. When the metal is stained deeply enough, lay the barrel in solution B for 20 or 30 minutes, then wash with warm water, and finally with soap water. Then dry and rub over with linseed oil varnish,

Better results will be attained by stoppering closely the gun barrel at both ends by means of corks, and laying for at least 30 minutes in each of the baths, which have previously been warmed.-D.

## II. A.

Fuming Distilled						
В.						

Silver nitra	te												.gr.	80
Distilled w	ater.		•	;	ł		•	•	•	•	•	.fl	.oz.	16

Rub off the gun barrel with emery paper, then by means of a sponge or soft hair brush apply solution A, dry in a cool place, and rub off with a cloth. Repeat this application, drying and rubbing off until a handsome oxidized surface is produced. Then apply solution B repeatedly, with subsequent exposure to light, until the gun barrel is dark enough, and then anoint with linseed oil varnish.-D.

## Gutta Percha, Purified.

Gutta perchaav.oz.	8
Carbon disulphidefl.oz.	40
Alcoholfl.oz.	108
Distilled waterfl.oz.	

Soften the gutta percha in lukewarm water; then pull to pieces, dissolve it in the carbon disulphide, set the mixture aside for 24 hours, filter through glass wool into a suitable vessel containing 60 fluidounces of alcohol. Agitate the whole together, and set aside until the mixture separates into two layers. Decant the upper alcoholic layer, wash the residue with the remainder of the alcohol in the same manner, decant as before; add the water, transfer the mixture to a retort, and distill off the carbon disulphide. Owing to the inflammability of the latter, the then by means of a sponge or soft hair utmost precaution must be taken to avoid residual mass by kneading in water, then III. express the latter, and dry in thin sticks.

The product weighs about 5 to  $6\frac{1}{2}$  av. ounces.-D.

## Hardwood Filler.

Use boiled oil and enough corn starch to make a very thick paste. Add a little japan, and reduce with turpentine. Add no color for white oak; for dark ash and chestnut use a little raw sienna; for walnut, burnt umber and a very little venetian red; for baywood, burnt sienna. Use enough color to cover the white of the starch. Apply with brush and rags, let dry 48 hours, then sandpaper. For second coat use less oil but more japan and turpentine.

## Harness Blacking, Polish or Oil.

These preparations are similar to shoe dressings and blackings, and some of the preparations to be found in this part under the latter heading may be made to serve the purpose of harness polishes.

I.

Glueav.oz.	
Acaciaav.oz.	2
Diluted acetic acidfl.oz.	24
Black inkfl.oz.	8
Isinglassgr.	120

Soften the glue by standing in 16 fluidounces of acid, dissolve the gum in the ink, and the isinglass in a little warm water. Add the rest of the acid to the glue solution, then warm it until solution is obtained; add the gum and ink, and next the isinglass. When all is warm and thoroughly mixed, remove from fire.

In using, warm enough to liquefy, and then apply by means of a sponge.

#### II.

Mutton suetav.oz. 2
Yellow waxav.oz. 6
Powdered sugarav.oz. 4
Yellow soapav. oz. 2
Lampblack
Indigo
Waterfl.oz. 4
Oil of turpentinefl.oz. 4

Dissolve the soap in the water, add the other ingredients (except the turpentine) melt and mix well together; finally, add the turpentine. The mixture is applied on the harness with a sponge, and polished with a brush.

Black anilinegr.	35
Muriatic acidm.	50
Bone blackgr.	175
Lampblackgr.	18
Yellow waxav.oz.	24
Oil of turpentinefl.oz.	
_	-H.

IV.

Oil of turpentine	fl.oz. 8
Yellow wax	.av.oz. 2
Prussian blue	.av.oz. 1/2
Lampblack	av.oz. 🖌

Melt the wax, add the turpentine, a portion first to the finely powdered prussian blue and lampblack, and thin with neatsfoot oil.

## Hectograph Masses.

Hectographs, also known as copygrams, copygraphs, chromographs, collographs, etc., are employed for the purpose of duplicating writing by taking an impression of writing made with a suitable aniline ink on a receiving pad made essentially from gelatin or glue and glycerin and then obtaining copies by laying fresh sheets of paper upon the pad.

The following formula will make a good pad. The directions with regard to air bubbles, pouring of the mass, etc., must be followed strictly in the succeeding formulas:

Take a pound, or any convenient quantity of pure white glue, free from whiting or other insoluble matter, and macerate in water, until it becomes soft and pliable. With a little manipulation and turning, this may be accomplished by using a pint of water for each pound of glue. Drain off the excess of water, if there be any, and add glycerin in the quantity of from two to three pints for each pound of glue used. The lesser amount is for summer, and the larger amount for winter use. Heat the mixture gently until the glue is dissolved, and the water absorbed by the glue has evaporated. The easiest way of ascertaining when this is accomplished is to take the weight of the evaporating dish out before commencing; then when the weight of the dish and its contents is equal to its tare and the amounts of glue and glycerin used, the operation may be considered completed. If the water is not driven off, the pad is likely to crack in a dry atmosphere by its spontaneous evaporation.

It will be found somewhat troublesome to avoid air bubbles in the mass. They may be avoided to an extent by the use of only moderate heat in dissolving the gelatin. When bubbles have formed, they may be skimmed off, but it is easier to destroy them by the use of alcohol. The mass when finished is strained into a wide mouthed bottle and allowed to stand in a warm place, or in warm water for an hour or two, when most of the bubbles will have arisen to the top and formed a scum on the surface. A small quantity of alcohol is now poured carefully down the side of the bottle, which instantly destroys them all. The gelatin, which is precipitated by the alcohol on the surface, re-dissolves as the alcohol evaporates. When this has occurred, the mass may be poured into a suitable shallow tray, holding the mouth of the bottle as near the tray as possible, to avoid the formation of fresh bubbles. The tray may be made by any tinner and should be as large as the largest paper on which copies are to be taken. It should be about 1/2 inch deep. To secure firmness, it should be fastened to a board. The melted mass may now be poured, as described, to nearly fill the tray; any air bubble which forms must be removed with a hot wire or other suitable means, and when cold the pad or hectograph is ready for use.

It is difficult to obtain a pad absolutely free from bubbles and one which is not sticky. To avoid the latter, various insoluble powders, sometimes soluble salts, are added to the hectograph mass. The former include clay, chalk, sulphur, barium sulphate, etc.; the latter potassium and other chromates. The former must be rubbed to a smooth paste with a portion of the melted mass before adding to the remainder of the smallest amount of water before adding to the remainder of the mixture.

The modus operandi of taking copies is as follows:

Write upon the paper with a suitable ink, allow it to remain for a minute or so to dry partially, then invert carefully upon the pad and press evenly and uniformly. In a minute or two, sufficient ink will have been absorbed by the pad from the paper so that new sheets

of paper, pressed upon the pad, will receive duplicates of the original writing. The number of copies that may be taken in this way, as well as their distinctness, varies according to the pad and the ink. The original writing, if laid upon a fresh pad or a fresh portion of the same pad after taking the first imprint, will furnish still other copies. After all the copies are taken, the pad should be cleansed with a moist sponge. A trifling amount of ink will remain in the pad, but this will not interfere with subsequent operations. The copies are sometimes improved by moistening the copying paper with water or strong alcohol, and then absorbing the excess of liquid between folds of bibulous paper.

Hectograph inks are mentioned under heading "Inks."

The hectograph mass, instead of being poured into a tray, may be formed into roller by casting in a mold. Copies may be taken by passing the roller over the writing and then over the paper to receive the copies.

The following mixtures may be formed into hectograph pads, as described above:

4.	
Gelatin	av.oz. 4
Glycerin	
Potassium bichromate	
II.	
Gelatin	av oz. 4
Water	
Glycerin	
White clay (Kaolin)	
III.	
Gelatin	av.oz. 1
Molasses	
Glycerin	
Water	
IV.	
Glue	av.oz. 7
Glycerin	
Carbolic acid	
Sulphur	gr. 60
The glue should be soaked i	n water several

hours before it is melted with the glycerin. Barium sulphate is also used as an addition.

V.

White glueav.oz.	6
Glycerinfl.oz.	
Dextrinav.oz.	
Precipitated sulphur, pure av.oz.	1/2
Watersufficier	

VI.
Isinglass
Waterfl.oz. 16 Mix; macerate for a few hours, and then
warm sufficiently to dissolve.
VII.
Gelatin
Use the latter sufficient to make the mass
of proper body.
VIII.
Good ordinary glueav.oz. 10 Glycerinfl.oz. 4 Kaolin or barium sulphateav.oz. 2½ Water
IX.
Best furniture glueav.oz. 4 Waterfl.oz. 8 Glycerinav.oz. 14
Soak the glue in the water until soft, stir-
ring frequently meanwhile; then add the
glycerin, and heat on a water bath, with gentle stirring, until the mixture weighs 10 av. ounces.
X.
Gelatinav.oz. 4

Gelatinav.oz.	4
Dextrinav.oz.	11/2
Sugarav.oz.	2
Waterfl.oz.	10
Glycerinfl.oz.	12
Zinc oxideav.oz.	11/2

## Horn and Ivory Black, to Color.

First place the horn in an aqueous solution of a lead salt, with a slight excess of sodium hydrate. The duration of this treatment depends on the character of the horn and the strength of the solution-generally half an hour is sufficient. Then wash well and introduce the horn into a solution of 350 grains of wool black and 18 grains of naphthol yellow S in 1 pint of water at 40 degs. C. A longer subjection to this latter treatment appears to be necessary.

For bone and ivory, water-soluble nigrosin will answer. It is only necessary to lay the pieces, previously deprived of fat and mordanted, in a hot aqueous solution of nigrosin until the desired tone is obtained. On account of its cartilaginous components, not drop from it nor spread on the paper;

ivory cannot be boiled in the nigrosin solution, but the same result can be obtained by allowing it to stand for some hours in a concentrated solution at a temperature of about 30 degs. C.

To deprive the bones of fat before treatment with aniline colors it is sufficient to boil them with frequent changes of water; subsequent treatment with ether being unnecessary.

Kellermann's method of mordanting is especially recommended. This consists of placing the defatted bones for fifteen minutes in the following:

Nitric aci	id,	cor	icer	itra	ted	 .fl.oz.	1
Water						 .fl.oz.	21
<b>Fartaric</b>	acio	1				 gr.	120

They are then washed and placed in a solution of 7 grains of zinc chloride in 1 pint of water with a few drops of hydrochloric acid.

With ivory it is sufficient to mordant for 15 minutes in 1 per cent hydrochloric acid.

#### Incense. (Balsamic Fumigation.)

г.		
	Benzoinav.oz.	2
	Olibanumav.oz.	8
	Myrrhav.oz.	3
	Cascarillaav.oz.	135
	Oil of lavender flowersdrops	5
	Oil of bergamot, drops	10
	Oil of clovesdrops	5
	Oil of cinnamondrops	4
L	· · · · · · · · · · · · · · · · · · ·	-
	Olibanumav.oz.	
	Benzoinav.oz.	2
	Cascarillaav.oz.	1
IJ	П.	
	Olibanumav oz.	4
	Benzoinav.oz.	
	Liquid styraxav.or.	
	Rose petalsav.oz.	i
	Lavender flowers	
L	V.	i.
	Amberav.or.	8
	Masticav.oz.	8
	Olibanumav.oz.	3
	Benzoinav.oz.	1
	Storaxav.oz.	1
	Camphorgr. t	30
	A REAL PROPERTY OF A READ REAL PROPERTY OF A REAL P	

#### Inks.

The characteristics of a good writing ink are as follows:

1. It must flow easily from the pen, but

 It should not contain finely suspended matter which will subside in the course of time, but should be perfect solution;

 The color should be dark, and therefore practically saturated, and writing made with it should not fade;

4. It should not mold, nor be liable to other decomposition;

5. It should copy or it should not, as may be desired, and,

6. It should not appreciably attack or corrode steel pens.

Black writing inks are frequently classed according to their use, as follows:

 Office or document inks, which must be prepared from nutgall or tannin, should be permanent, and are intended for documents which are to be preserved;

 Copying inks, which are prepared from nutgall, tanr.in, logwood, or even coal tar dyes, and which must furnish good copies, and

 Ordinary writing inks, such as are employed as house and school inks, and which should be cheap and from which no special permanence is expected.

According to composition, inks may be classified into

- 1. Aniline inks;
- 2. Logwood inks;
- 3. Nutgall inks;
- 4. Tannin inks, and,
- 5. Miscellaneous inks.

The first class yields copying and writing inks, as well as the various colored inks which are in use for various purposes. The second class yields copying and writing inks, and the third and fourth classes yields document and copying inks. The fifth class embraces hectograph inks, indelible inks, sympathetic inks, etc.

In order that a good ink may retain its excellent qualities, certain cautions should be observed in its use: Before putting a new ink in an ink-well, the old ink should be entirely removed and the ink-well washed. Also no ink container should be used which cannot be closed, and such ink vessel should always be closed when not in use. If an ink is liable to thickening or other change, the ink-well should be cleansed before refilling, even if with the same ink. Several preparations, which are used in the manufacture of many of the inks which follow, are mentioned here.

Nutgall infusion:

Chinese nutgall			į,				ł,	.av.oz. 7
Talcum, purifie	d.	 			•			.av.oz. 34
Water, distilled		 						sufficient

Reduce the nutgall to coarse powder, moisten (not wet) the powder, and set the latter aside at a temperature of 20 to 25 degs.

C. until it is thickly covered with mold. In order to hasten this molding, the drug should be moistened daily with water, so that it will always have about the same proportion of moisture. At the end of from 8 to 10 days. fermentation will have advanced sufficiently to admit of extraction of the drug. To the latter should, be added 14 fluidounces of water, and the mixture heated for an hour on the water bath. Then express, treat the residue in the same manner with the same amount of water, and then again with 7 fluidounces of water. Mix the three liquids obtained, add the talcum, shake well, set aside for 24 hours, filter, and add enough water, if necessary, through the filter to make the filtrate measure 32 fluidounces.

The infusion will keep for several days. Tannin solution:

Tannic acid......av.oz. 3 Muriatic acid, commercial .....fl.dr. 4 Distilled water ......sufficient

Mix the two acids and 3 fluidounces of water in a flask, and heat on a water bath to a temperature of 80 to 90 degs. C. for 3 hours, adding from time to time hot water until 27 fluidounces are added.

This solution should not be kept longer than 7 days.

Aniline Inks.—Many of the coal tar dyes (misnamed "anilines,") which are now manufactured, produce excellent copying inks. Compared to nutgall, tannin, and logwood inks, they are less permanent, but they will serve excellently where no especial permanence is required. They are especially useful as hectograph inks. Where permanence of writing is demanded, as in the draughting of documents, aniline inks cannot be employed as they soon become bleached from the action of air and light.

It is to be noted here that water containing

lime decomposes many aniline colors, and solutions of these dyes in calcareous water may thicken in the course of time, hence only distilled water should be employed in the manufacture of these inks.

In using, only the best obtainable dye of the kind mentioned should be used, as otherwise good results cannot be obtained.

Logwood Inks.— These might also be designated as chrome inks, for they always contain potassium bichromate or chrome alum; also some acid, with the object of producing acid salts of the chromium compound. The greater the amount of acid in proportion to the chromium, the paler or redder and thinner the product, and, conversely, the greater the proportion of chromium, the darker and thicker the ink will be. Most logwood inks copy with great facility—writing produced sometimes being copyable even after weeks and months.

Logwood inks can be more easily erased from paper than nutgall inks. They have the advantage of furnishing several copies if desired. All inks lose their copying qualities when exposed to air containing even traces of ammonia. In order to facilitate copying with an exposed logwood ink, the copying paper should be moistened with a one-tenth per cent aqueous solution of potassium chromate. Old writing made with logwood ink may be copied in the same manner, even after the lapse of years.

Logwood inks may be prepared from the following solution:

Logwood extract solution:

Logwood	extract,	best	av. oz.	41/2
Distilled	water		,fl.oz.	20

Dissolve the extract in the water on a water bath, set the solution aside for 8 days, and decant the clear liquid.

Nutgall Copying Inks.—Copying inks differ from non-copying in that they retain their copying qualities. Inks which are made with ferric salts soon become non-copyable, while those made with ferrous salts, especially ferrous sulphate, copy the best. Hence copying inks are made with ferrous salts, and non-copying inks with ferric salts. The copying qualities of ink are improved by the addition of pure sugar or of glucose.

In preparing the different nutgall copying inks, the following mixture, which may be known as "Nutgall Ink Body I," forms the basic ingredient:

Nutgall Ink Body I.:

Nutgall infusionfl.oz.	30
Sulphuric acid, concentratedm.	40
Ferrous sulphate, puregr.	100
Distilled watersuffici	ient

Mix the infusion and acid; heat for 15 minutes on a water bath, dissolve the iron salt in the mixture, transfer the latter to a bottle, cork well, set aside for 2 weeks, filter and add through the filter enough water to make the filtrate measure 32 fluidounces.

Nutgall Non-Copying Inks.—The following mixture, known in these pages as "Nutgall Ink Body II.," serves as a body for many of the inks mentioned below:

Nutgall Ink Body II.:

Nutgall infusionfl.oz.	32
Solution of chloride of iron, U.	
S. Pfl.oz.	24
Distilled waterfl.dr.	6

Allow this mixture to stand for 2 weeks in a closed vessel, and then filter.

Tannin Copying Inks.—Tannin copying inks, like the nutgall copying inks, are preferably made with ferrous salts and contain an addition of sugar or glucose. The following mixture, which may be known as tannin "ink body I.," is the basic ingredient of the tannin copying inks:

Tannin Ink Body I.:

Tannin	solutionfl.oz. 15	
	sulphate, pure av.oz. 14	
Distilled	watersufficient	

Heat the tannin solution to about 70 or 80 degs. C., also dissolve the iron salt in 9 fluidounces of hot water; mix the hot solutions by pouring iron solution gradually into the tannin solution, set the mixture aside for 8 weeks, filter and add enough water through the filter to make the filtrate measure 25 fluidounces.

Tannin Non-Copying Inks.—The tannin inks herein mentioned are frequently prepared by the use of the following mixture, which may conveniently be termed "tannin ink body II."

Tannin Ink Body, II.:

Tannic acid	av.oz. 31/2
Solution of iron chloride, U	
S. P	fl.oz. 4
Muriatic acid, commercial	fl.dr. 21⁄4
Water	.sufficient

Mix the two acids, the solution and 7 fluidounces of water in a flask on a water bath, at a temperature of 80 to 90 degs. C., for a period of 10 hours. Then add 20 fluidounces of hot water; continue the heat for another hour, transfer to a bottle, cork well, set aside in a cool place for 2 weeks, filter and add through the filter enough water to make the filtrate measure 32 fluidounces.—D.

## Ink, Alizarin.

Alizarin paste			gr.	225
Sodium carbon	nate, pu	ire	gr.	105
Extract of log				
Carbolic acid.				
Water			fl.oz.	32
<b>.</b>				

Dissolve the sodium carbonate in a small amount of water, add the alizarin paste, then the extract of logwood, previously dissolved, in the remainder of the water. Filter and transfer the liquor to a rather large bottle, drop in a few nails or iron filings, and expose the whole to the sunlight for a week, with occasional agitation. Lastly, decant and preserve by incorporating the carbolic acid. This ink does not corrode the pen, is not affected by light, and does not gum, but it is not acid proof.

## Ink, Alizarin, Copying

#### I.

Indigotin Aniline green, D		
Sugar Distilled water	av.oz.	114
Nutgall ink body I Carbolic acid	.fl.oz.	32

Dissolve the dyes and sugar in the water by the aid of heat, add the remaining ingredients, transfer the mixture to a bottle; tie over the latter a piece of paper, set aside in a cool place for a week, and decant the clear liquid from the triding precipitate.—D. II.

Indigotin	gr. 70
Aniline green, D	
Glucose	
Distilled water	fl.oz. 2
Tannin ink body I	fl.oz. 25
Carbolic acid	drops 15
Dissolve the dyes and glue	ose in the water

by the aid of heat, add the remaining ingredients, transfer to a bottle; tie over the latter a piece of paper, set aside in a cool place for one week, and decant the clear liquid from the triffing precipitate.—I).

## Ink, Alizarin, Non-Copying.

Aniline green, Dgr.	76
Indigotingr. Waterfl.oz.	28
Nutgall ink body IIfl.oz.	
Carbolic acidfl.dr.	- 74

Dissolve the two dyes in the water by the aid of heat, add the other ingredients, transfer the mixture to a bottle, tie over the mouth of the latter a piece of paper, set aside for one week in a cool place, and decant the clear liquid from the trifling sediment.—D.

## II.

Indigotin	дт. 80
Aniline green, D	gr. 48
Tannin ink body II	fl.oz. 16
Distilled water	
Carbolic acid	drops 20
Sugar	

Dissolve the dyes in the water by the aid of heat, add the other ingredients, transfer to a bottle, tie over the latter a piece of paper, set aside for one week in a cool place, and decant the clear liquid from the triffing precipitate.—D.

## Ink, Black, Copying.

Phenol black (coal tar dye)gr. 190
Sugar
Distilled waterfl.oz. 3
Nutgall ink body IIfl.oz. 32
Carbolic aciddrops 20
Prepare like alizarin copying ink, No. I.
-D.
I.

Phenol black, B. (co	al tar dye)gr. 140
Glucose	av.oz. 114
Distilled water	fl.oz. 2
Tannin ink body I.	fl.oz. 25
Carbolic acid	drops 15
Prepare like alizarin	copying ink, No. II.
—D.	
III. ·	

Aleppo gallsav.oz.	51/2
Cloves	60
Distilled waterfl.oz.	40
Ferrous sulphate, puregr.	720
Sulphuric acid, purem.	85
Neutral sulphate of indigogr.	
The galls and cloves, coarsely ground	d, may

be exhausted by percolation until 40 fluidounces are obtained, or they may be macerated with sufficient water. In either case it is intended to produce 40 fluidounces of the fluid, and allowance must be made for the water absorbed by the marc. To this, when filtered, add the iron, and when dissolved filter again, then add the acid and, after mixing thoroughly, the indigo paste, after which it may be again filtered.

This produces a blue-black fluid, not apt to mold. To insure a superior product, careful attention must be paid to manipulation, details, and to the quality of its ingredients. The galls must be free from insect perforations, and the iron, selected crystals free from efflorescence or ferric salt, and the indigo neutral, or nearly so. If the article sold as " indigo paste " is not at hand, it may be prepared by carefully adding to the ordinary sulphate of indigo a solution of potassic or sodic carbonate until effervescence ceases.

IV.

Galls, groundav.oz.	8
Ferrous sulphate, pureav.oz.	4
Gum arabicav.oz.	2
Sugarav.oz.	
Distilled waterfl.oz.	48

Macerate the galls, with frequent agitation, in 40 fluidounces of the water for one week; filter, and to this infusion add the iron, previously dissolved in the remaining pint of water. Dissolve in this mixture the gum and sugar; filter, and the ink is ready for use. A better product is obtained if the iron is dissolved in water made slightly acid with sulphuric acid.

V.

Extract of logwoodav.oz. 51/2
Sodium carbonategr. 525
Waterfl.oz. 40
Glycerinfl.dr. 4
Potassium chromate
Mucilage of acaciafl.dr. 6

Heat the extract of sodium carbonate with the water by the aid of heat, add the glycerin, mucilage and potassium bichromate, the latter first dissolved in some water, and then add enough water, if necessary, to make up 40 fluidounces.

This ink will give a good copy without a press, by simply laying a sheet of moist copy- reducing the dye even to 11/2 av.ounces .- D.

ing paper over the written page, covering with a sheet of letter paper and pressing evenly with the hand or paper knife.

## Ink, Black, Non-Copying.

Phenol black, B (coal tar dry) gr.	320
Waterfl.oz.	
Nutgall ink body IIfl.oz.	38
Carbolic acidfl.dr.	34

Prepare like alizarin non-copying ink, No. II.-D.

II.

I.

Phenol black, B (coal tar dye) gr.	160
Tannin ink body IIfl.oz.	16
Distilled waterfl.oz.	
Carbolic aciddrops	20
Sugargr.	40

Prepare like alizarin non-copying ink, No. II.-D.

#### Ink, Black, Writing.

Logwood extract solution av.oz. 2	0
Potassium bichromategr. 9	0
Chrome alumav.oz.	
Oxalic acidav.oz.	
Carbolic acidfl.dr.	
Distilled water sufficien	L

Mix the extract solution with 50 fluidounces of water, heat on a water bath to 90 degs. C., add the potassium bichromate, chrome alum, and oxalic acid previously dissolved in 15 fl.ozs. of water; continue the temperature of 90 degs. C. for one-half hour, then add enough water to make the mixture weigh 100 av.ounces, and the carbolic acid; set aside for 2 or 3 days, and decant the clear liquid.

This ink is black in color, and the writing is of the same tint. It is very cheap, and hence is adapted to school purposes .- D.

II.

Phenol black, B (coal tar dye)av.oz.	24
Sugarav.oz.	
Carbolic acidfl.dr.	1
Sulphuric acid, purem.	25
Distilled waterfl.oz.	96

Mix the dye with 6 fluidounces of cold water, allow to stand for 2 hours, then add the remainder of the water, in the boiling condition, and the other ingredients, and stir about until dissolved.

This ink writes a handsome blue-black. For school purposes it may be cheapened by

I.

1	1	1	r
1			ι.

Logwood chipsav.oz.	8
Potassium chromategr. 4	0
Watersufficier	ıt

Boil the logwood with water to make 64 fluidounces of decoction, and to it add the potassium salt previously dissolved in water. This makes a very cheap ink.

#### IV.

Extract of logwood	.av.oz.	61/2
Lime water		
Carbolic acid		
Muriatic acid	fl.dr.	11
Mucilage acacia	fl. oz.	5
Potassium bichromate	gr.	90
Water, enough to make	fl.oz.	108

Dissolve the extract in the lime water on a water bath, stirring constantly, and then add the two acids, which change the color of the solution from red to brownish yellow.

Set the mixture aside until cool, then filter; add the potassium salt, first dissolved in some water, then the potassium bichromate, and finally, the remainder of the water.

## Ink, Blue-Black, Copying.

Prepare like red copying ink, No. III, but decreasing the sulphuric acid to 18 drops, and increasing the potassium bichromate to 70 grains.

This ink is of a dark-blue color; the writing and copies are blue-black.—D.

#### Ink, Blue, Copying.

#### I.

Phenol blue, 3 F (coal tar dye)gr.	<b>4</b> 8
Sugarav.oz.	
Distilled waterfl.oz.	
Nutgall ink body Ifl.oz.	32
Carbolic aciddrops	
Design the structure tails Ma	т

Prepare like alizarin copying ink, No. I.-D.

## 11.

Phenol blue, 3 F (coal tar dye)gr.	42
Glucoseav.oz.	11/2
Distilled waterfl.oz.	2
Tannin ink body Ifl.oz.	<b>25</b>
Carbolic aciddrops	
Property like elizatin conving ink Ne	. 11

Prepare like alizarin copying ink, No. II. -D.

#### III.

Resorcin blue, M (coal tar dye)gr.	100
Sugargr.	100
Oxalic acidgr.	20
Distilled waterfl.oz.	20

Dissolve the dye in the water by the aid of heat; add the other ingredients, and again dissolve -D.

## Ink, Blue, Non-Copying.

Phenol blue, 3 F (coal tar dye)gr.	96
Waterfl.oz.	28
Nutgall ink body 11fl.oz.	38
Carbolic acidfl.dr.	1/2

Prepare like alizarin non-copying ink, No. I.-D.

II.

Phenol blue, 3 F (coal tar dye)g	: <b>6</b> 0
Tannin ink body I1fl.oz	. 16
Distilled waterfl.oz	. 25
Carbolic aciddrop	
Sugargi	

Prepare like alizarin non-copying ink, No. II.-D.

#### Ink, Blue-Green, Copying.

I.		
	Phenol blue, 3 F (coal tar dye)gr.	38
	Aniline green, Dgr.	95
	Sugarav.oz.	
	Distilled waterfl.oz.	- 3´`
	Nutgall ink body Ifl.oz.	32
	Carbolic aciddrops	
	Prepare like alizarin copying ink. No.	1

D.

#### П.

Ι.

Phenol blue, 3 F (coal tar dye)gr. Aniline green Dgr.	
Glucose	11/
Tannin ink body Ifl.oz. Carbolic aciddrops	25

Prepare like alizarin copying ink, No. II. -D.

## Ink, Blue, Writing.

Resorcin blue, M (coal tar dye)gr.	48
Sugargr.	
Oxalic acidgr.	10
Distilled waterfl.oz.	191⁄4

Mix the dye with 1 fluidounce of cold water, set aside for 2 hours, then add the remainder of the water, in the hot condition, and the other ingredients, and stir about until dissolved.

This ink writes a handsome blue and flows readily, but has the disadvantage of somewhat corroding the pen, and hence the latter should be cleaned frequently.—D.

II. A cheap blue ink may also be prepared

from soluble prussian blue by solution in water. A little mucilage of acacia may be added.

Logwood, bestav.oz.	5
Alum	120
Acaciagr.	
Sugargr.	
Waterfl.oz.	40

Boil for an hour, let stand 2 or 3 days, and strain.

## Ink, Blue-Green, Non-Copying.

Phenol blue, 3 F (coal tar dye)gr.	48
Aniline green Dgr.	60
Waterfl.oz.	
Nutgall ink body II fl.oz.	38
Carbolic acidfl.dr.	1/2
Prepare like alizarin non-copying, ink.	

## I.-D. II.

Phenol blue, 3 F (coal tar dye)gr. 30
Aniline green, D
Tannin ink body IIfl.oz. 16
Distilled waterfl.oz. 25
Carbolic aciddrops 20
Sugar
Prepare like alizarin copying ink, No. II
-D.

# Ink, Eosin. (Scarlet Ink.-Coral Ink.)

I.

Eosin A,	yellowish					 .gr.	144
Sugar		**	 	+	 +	 .gr.	288

Mix the dye with 1 fluidounce of cold water, set aside for 2 hours, add the remainder of the water, in the hot condition, and the sugar, and stir until dissolved.—D. II.

Eosin (water soluble)gr.	120
Alcoholfl.oz.	2
Mucilage of acaciafl.oz.	1
Water, enough to makefl.oz.	16

Dissolve the eosin in about 12 fluidounces of water, a small portion of this being poured hot upon the eosin contained in a bottle; next add the alcohol, and shake; finally, add the mucilage and enough water to make 16 fluidounces.

111. See also No. IV., "Red Copying Ink."

#### Inks, Glossy.

Ink may be made glossy by the addition of mucilage of gum arabic or of a solution pre-11.-D.

pared by heating a mixture of borax, 180 grains; shellac, 60 grains; sugar, 120 grains, and water, 16 fluidounces.

#### Ink, Gold.

I. This may be prepared by mixing equal parts of potassium iodide and lead acetate, placing them upon a filter, and then pouring on twenty times the quantity of boiling distilled water. As the filtrate cools the lead iodide separates in golden scales. After the filtrate has cooled the precipitate should be collected on a filter, washed with a little cold water, and rubbed up to an ink with mucilage of acacia. The ink must be shaken before using.

II. Reduce gold foil to powder by triturating in a mortar with honey or syrup, dilute with water, decant the liquid, wash the gold several times with water; dry and mix with mucilage of acacia.

#### Ink, Green, Copying.

L	
Aniline green, Dgr.	114
Sugarav.oz.	
Distilled waterfl.oz.	3
Nutgall ink body Ifl.oz.	32
Carbolic aciddrops	20

Prepare like alizarin copying ink, No. I.-D.

## II.

Aniline green Dgr,	
Glucoseav.oz.	
Distilled water fl.oz.	2
Tannin ink body I fl.or.	25
Carbolic aciddrops	15
Tannin ink body Ifl.or.	25

Prepare like alizarin copying ink, No. II. -D.

## Ink, Green, Non-Copying.

#### I.

Aniline green, Dgr.	192
Waterfl.oz.	28
Nutgall ink body IIfl.oz.	38
Carbolic acidfl.dr.	1/2

Prepare like alizarin non-copying ink, No. I.-D.

#### II.

Aniline green, Dgr.	100
Tannin ink body IIfl.oz.	16
Distilled waterfl.oz.	25
Carbolic aciddrops	
Sugargr.	-40

Prepare like alizarin non-copying ink, No. 11.-D.

III.

# Ink, Green, Writing.

Methyl green, bluish (water

soluble	5.										×			gr.	96
Sugar										 				gr.	192
Distilled	W	at	e	r	•	• •			*	• •			fl	.oz.	191/2

Mix the dye with 1 fluidounce of cold water, set aside for 2 hours. then add the remainder of the water, in the hot condition, and the sugar, and stir about until dissolved. -D.

# Ink, Orange.

Aniline orange								.gr.	144
Sugar								.gr.	288
Distilled water			•				.f	l.oz.	20

Mix the dye with 1 fluidounce of water, set aside for 2 hours; then add the sugar and the remainder of the water, in the hot condition, and stir until dissolved.—D.

#### Ink, Purple.

Aniline purplegr.	80
Alcoholfl.dr.	12
Mucilage of acaciafl.dr.	10
Waterfl.oz.	17

This color is brilliant at first, but is liable to fade.

#### Ink, Red Aniline.

See " Eosin Ink."

A red, inclining to purple, is made by dissolving fuchsin (ordinary aniline red) in water in the proportion of about 25 grains to the pint. Solution may be more readily effected by first dissolving the color in a little alcohol (about 5 fluidrams), and then adding the water. A small proportion of gum arabic is sometimes added to give the ink more "body." Two fluidrams to the pint is sufficient.

Another good formula is the following:

Erythrosin															
Water		•	•	• •	•	•	•	•	•	ł	,	•	fl	. OZ.	16

Thicken with gum arabic, and add a little boric acid or other preservative.

# Ink, Red, Carmine.

I.

Carminegr.	192
Ammonium carbonategr.	192
Water of ammoniafl.oz.	4
Mucilage of acaciafl.oz.	3
Distilled waterfl.oz.	13

Mix the carmine and ammonium carbonate, dissolve in the ammonia water, and add the remaining ingredients.-D.

# II.

Carmineav.oz.	1/2
Ammonia waterfl.oz.	1
Dextringr.	120
Waterfl.oz.	16

Triturate the carmine, add to the ammonia and water, dissolve by agitation; add the dextrin, and again dissolve.

#### III.

Carminegr.	128
Ammonia waterfl.oz.	8
Distilled waterfl.oz.	8
Gum arabicav.oz.	34
	TT

#### IV.

V.

Carminegr. 1	
Ammonia waterfl.oz.	41/2
Mucilage of acacia fl.oz.	
Waterfl.oz. 1	13

Dissolve the carmine in the ammonia and add the other ingredients.

Carmine.				
Water of Glycerin				
Water, q	5	,	 fl.	oz. 8

Rub the carmine into a fine powder in a wedgewood mortar; make a paste with and dissolve in the water of ammonia, and then add, with constant trituration, the glycerin. Transfer to a porcelain capsule, and heat upon a water bath until the liquid is entirely destitute of ammoniacai odor; cool and add the water. The entire removal of the ammonia gas requires the constant stirring of the liquid with a glass rod, and rather lengthy heating.

This should be diluted with water.

Many of the carmine inks of the market are really eosin inks. See " Eosin Ink."

# Ink, Red, Cochineal.

Cochineal, powdergr.	490
Potassium carbonate	21
Cream of tartarav.oz.	634
Potassa alumgr.	196
Mucilage of acaciafl.oz.	214
Alcohol	10
Oil of clovesdrops	15
Distilled waterfl.oz.	22
Alcohol	10 15

Macerate the cochineal and potassium carbonate with 19 fluidounces of water in a flask for 2 days; then add the cream of tartar and alum, heat on a water bath until all the carbonic acid gas is expelled, add the alcohol and filter. Wash the filter with 1 fluidounce THE STANDARD FORMULARY.

of water, and to the filtrate add the mucilage and the oil. Writing with cochineal ink is very perma- nent.—D.	Ink, J I. Ponc Wate Nutg
Ink, Red, Copying.	Carb
I. Ponceau, R. R. (coal tar dye)gr. 152 Sugarav.oz. 1¼ Distilled waterfl.oz. 3 Nutgall ink body Ifl.oz. 32 Carbolic aciddrops 20	Prepa I.—D. II. Pone Tant Disti Carbo
Prepare like alizarin copying ink, No. I D.	Suga
	Prepa
II. Ponceau R. R. (coal tar dye)gr. 112 Glucoseav.oz. 1¼ Distilled waterfl.oz. 2 Tannin ink body Ifl.oz. 25 Carbolic aciddrops 15	II.—D. Ink, J In ad tioned,
Prepare like alizarin copying ink, No. II. -D.	I. Perna
III. Logwood extract solution,av.oz. 24 Sulphuric acid, concentrateddrops 40 Aluminium sulphategr. 700 Oxalic acidgr. 700 Potassium carbonategr. 700 Potassium bichromategr. 52 Carbolic acid	Alum Acac Tin 1 Dilut Disti Mix gether alum; e
Distilled watersufficient	the aca

Heat the extract solution with the acid on a water bath for 15 minutes. In the meantime dissolve the aluminium salt in the water at a moderate heat; add the potassium carbonate, stir until there is no further evolution of carbonic acid gas, then add the oxalic acid, stir until all the precipitate is dissolved and there is no further evolution of gas, and now add the potassium bichromate, and dissolve. Incorporate the latter solution with the extract mixture by pouring the former slowly into the latter, continue the heat for 15 minutes more, add enough water to make the liquid weight 40 av.ounces, and finally, add the acid.

This ink is of a handsome red color; it writes red, and the writing speedily darkens. It is the best copying ink here mentioned.-D. IV.

Eosin A,	yellowish
Distilled	waterfl.oz. 20
Mix and	dissolve without heat -D.

# Red, Non-Copying.

Ponceau R. R. (coal tar dye) gr.	192
Waterfl.oz.	28
Nutgall ink body IIfl.oz.	38
Carbolic acidfl.dr.	3/2

are like alizarin non-copying ink, No.

Ponceau R. R. (coal tar dye) gr.	100
Tannin ink body II fl.oz.	
Distilled waterfl.oz.	
Carbolic acidgr.	20
Sugargr.	40

are like alizarin non-copying ink, No.

## Red.

dition to the red inks previously menthe following may also be of service:

Pernambuco woodav.oz.	
Alum	480
Acaciagr.	
Tin muriate (crystals)gr.	
Diluted acetic acidfl.oz.	
Distilled waterfl.oz.	16

the wood, water and acid, boil tountil 24 fluidounces remain, add the vaporate to 16 fluidounces, strain, add the acacia, dissolve, and then add the tin crystals.

#### IT.

Brazil wo	od								 av.oz.	2
Water										
Tin chlor										
Mucilage	of	ac	ac	ia	• •		 •	•	 "fl.dr.	1%

Boil the wood and water, strain, add the tin chloride, evaporate to 16 fluidounces, and add the mucilage.

#### Ink, Scarlet.

The so-called scarlet inks are usually the same as the eosin inks.

#### Ink, Silver.

This may be prepared from silver leaf by a process similar to making gold ink from gold leaf.

# Ink, Vanadium.

Vanadium tannate was first proposed for use as a writing ink by Berzelius, because the writing is not affected by acids, but the high price of vanadium salts was a great obstacle

Since these salts have to its introduction. been more largely prepared for use in the manufacture of aniline black and other dyes, vanadium ink has again been proposed. The following formula may be used:

Tannic acidgr.	480
Ammonium vanadategr.	19
Waterfl.oz.	11

Dissolve the acid in 10 fluidounces of water and the vanadate in 1 fluidounce of water. and mix the solutions.

This ink flows with a deep-black color from the pen, without spreading or striking through the paper, although it contains no gum. It has a pleasant gloss, cannot be copied, dries quickly, and, even if the writing is laid in water for 24 hours, does not change its black color. It is very useful for writing addresses of letters, postal cards, etc., when used fresh. Dilute acids do not alter it, but solutions of chlorinated potassa (or soda) bleach it com-After a few weeks the tint of the pletely ink begins to change, writing executed with it becomes lighter and somewhat yellowish, and in about 3 months the change is completed, when it has a fox-yellow tint. The writing is still plainly legible, however, and cannot be removed either by water or by acids.

# Ink, Violet, Copying.

1.	
Phenol blue, 3 F (coal tar dye)gr. 38	
Ponceau R. R. (coal tar dye)gr. 57	
Sugarav.oz. 1	
Distilled waterfl.oz. 3	'
Nutgall ink body Ifl.oz. 32	
Carbolic aciddrops 20	
Prepare like alizarin copying ink, No. I.	_
D.	
II.	

#### Phenol blue, 3 F (coal tar dye)....gr. 28 Ponceau R. R. (coal tar dye)....gr. 42 Distilled water.....fl.oz. 2 Tannin ink body I.....fl.oz. 25 Carbolic acid.....drops 15 Prepare like alizarin copying ink, No.II.-D.

III. Prepare like red copying ink, No. III., but decrease the amount of sulphuric acid to 27 drops and increase the potassium bichromate to 60 grains.

This ink is of a dark violet color, and the writing and copies are of the same hue.-D. | iodine is employed, as in the next formula:

IV.

Methyl violet, 3 B (coal tar	
dye)gr.	<b>20</b> 0
Sugar	100
Oxalic acidgr.	
Distilled waterfl.oz.	

Dissolve the dye by the aid of heat in the water, add the other ingredients, and again dissolve.-D.

#### Ink, Violet, Non-Copying.

Phenol blue, 3 F (coal tar dye)gr.	48
Ponceau R. R. (coal tar dye)gr.	64
Waterfl.oz.	
Nutgall ink body IIfl.oz.	38
Carbolic acidfl.dr.	1/2
Prepare like alizarin non-copying ink,	No.

I.-D.

#### II.

Phenol blue, 3 F (coal tar dye)gr.	80
Ponceau R. R. (coal tar dye)gr.	
Tannin ink body IIfl.oz.	
Distilled waterfl.oz.	
Carbolic aciddrops	20
Sugargr.	
Deserve like alizaria non conving ink	Ma

Prepare like alizarin non-copying ink, No. II.—D.

# Ink, Violet, Writing.

Methyl violet, 3 B (coal tar dye)gr.	96
Sugargr.	96
Oxalic acidgr.	20
Distilled waterfl.oz.	19%

Mix the dye with 1 fluidounce of cold water, set aside for 2 hours, then add the remainder of the water, in the hot condition, and the other ingredients, and stir about until dissolved.-D.

#### Ink, White.

White inks, for writing on colored surfaces, consist either of a white mineral suspended in a viscid medium, or of chemicals affecting the coloring material in the paper. This, in the case of ultramarine, is an oxalic acid solution, or hydrochloric acid, according to this formula:

#### Ink for Blue Paper.

Hydrochloric acidfl.di	. 1
Mucilagem	. <b>80</b>
Waterfl.du	. 7

To produce white writing on photographs,

#### Ink for Silver Prints.

Iodine	gr. 15
Acacia	
Potassium iodide	
Water	.H.oz. 1

For preparations of the first order take lightest zinc white, or lead white, or magnesium carbonate, or freshly precipitated barium sulphate, or starch (all in an impalpable powder) and suspend in a diluted solution of gum arabic, dextrin, or tragacanth. The mixture requires shaking from time to time to keep the pigments from separating. The "ink" may be preserved by addition of oil of cloves or other antiseptic to prevent decomposition of the mucilage.

#### Ink, Branding.

By this is meant an ink used for marking boxes, bales, packages, etc., by means of a small brush. They are frequently termed marking inks.

Shellacav.oz.	
Boraxav.oz.	
Gum arabicav.oz.	
Waterfl.oz.	
Pigmentsufficie	nt

Boil the borax and shellac in the water until they are dissolved, add the gum arabic and allow to cool. Add water to complete 25 fluidounces and then stir in the pigment, using either venetian red, lampblack, ultramarine, or prussian blue. Black is improved by the addition of blue. Green may be produced from a mixture of blue and chrome yellow. II.

Extract of	logwoodav.oz.	2
	bichromategr.	
Water, hot		1

Dissolve the extract of logwood in part of the water, and the potassium bichromate in another portion; mix the two solutions and allow to stand for 1 or 2 weeks.

#### III.

Prussian blue	av.oz. 2
Lampblack	av.oz. 1
Gum arabic	av.oz. 3
Glycerin .	sufficient

Triturate together the dry powders and then make into a suitable paste with glycerin.

IV. Mix boiled linseed oil with sufficient lampblack or other suitable pigment.

# Ink, Diamond.

These are liquids used for etching glass. Commercial strong hydrofluoric acid often gives negative results, because when applied in its pure state, it produces such a smooth corrosion of the glass that it may elude superficial inspection. The most common method consists in mixing ammonium fluoride with precipitated barium sulphate and decomposing with sulphuric acid, and is as follows:

Ammonium fluoride.....av.oz. 1 Barium sulphate.....av.oz. 3 Sulphuric acid.....sufficient

Rub the two solids together, transfer to a platinum, lead or gutta-percha vessel, and add sufficient sulphuric acid to produce a cream-like paste. Operators must be cautioned against inhaling the exceedingly acrid vapors of hydrofluoric acid. Apply with a quill or camel's-hair pencil.

A second formula is as follows:

Mix the 2 salts in a porcelain mortar, transfer to a platinum or lead vessel, and by means of a platinum wire stir in enough of the acid to make a thin paste.

Writing may be performed with a steel pen, allow it to remain for one-half hour, and then wash off with water. To make etching more visible, rub in a little printer's ink.-D.

# Ink, Enamel.

An ink, or rather varnish, for writing labels which are intended to resist the action of acids, etc., may be prepared as follows:

Shellacav.oz. 1
Borax av.oz. 11/2
Nigrosin, water-soluble av.oz. 1/2
Tannic acid
Picric acidgr. 5
Ammonia waterfl.dr. 12
Water

Dissolve the shellac and borax in 15 to 20 fluidounces of water by the aid of heat, and filter hot; to the filtrate add the nigrosin, acids and ammonia, and then enough water to reduce the mixture to the required dilution.

The ink should be of such consistence that it will readily flow from the pen. Ι.

11

I.

# Ink Erasives.

Fresh ink spots are removed with comparative ease; old spots, especially after passing repeatedly through the laundry, are usually extinguished with considerable difficulty. The ink erasives are intended for the removal of ink spots from paper as well as from fabrics.

#### I.

The following composition will remove ink or writing fluids from paper, cloth, etc.:

No. 1.

Citric acid.....av.oz. 2 Water .....fl.oz. 16 Saturated aqueous solution of

borax .....fl.oz. 3 or 4 Dissolve the acid in the water and add the borax solution.

No. 2.

Mix the lime and water, shake well, set

aside for 1 week in a well stoppered bottle, decant the clear liquid, and add the borax solution.

This composition is used by saturating the ink spot with solution No. 1, removing excess of liquid with a blotter, and then applying solution No. 2. When the stain has disappeared, apply the blotter, and wash the spot by the alternate use of clear water and blotting paper. The above composition, we believe, is patented.

Ink destroyed in such a manner cannot well be brought to view again by chemicals. Tannic or gallic acids will sometimes restore obliterated writing.

II.

Take of chlorinated lime 4 av.ounces, thoroughly pulverized, and 32 fluidounces distilled water. Shake well and set the mixture aside for 24 hours, in order to dissolve the lime, then strain through a cotton cloth, after which add 2 fluidounces of acetic acid to every pint of chloride of lime water.

The eraser is used by reversing the penholder in the hand, dipping the end of the reversed penholder into the fluid and applying, it without rubbing, to the word, figure or blot required to be erased. When the ink

has disappeared absorb the fluid with a blotter, and the paper is immediately ready to write upon again.

III. Treat the stain with stannous chloride to reduce the ferric salt to the ferrous condition and then treat with oxalic acid solution.

# Inks, Hectograph.

These are inks which are used in connection with hectographs (See "Hectograph Masses"). As will be observed, they are made with coal tar, so-called aniline dyes,

#### Ink, Hectograph, Black.

Dissolve nigrosin in water in the proportion of 1 of the former to 5 or 7 of the latter.

# Ink, Hectograph, Blue.

Resorcin blue, Mgr. 50	
Glycerinfl.dr.	
Alcoholfl.dr. 1	
Acetic acid, glacial drops 5	
Distilled water fl.dr. 7	

Dissolve the dye in a mixture of the other ingredients by the aid of heat.-D.

Brilliant green, crystalsgr. 2	200
Hoffmann's violet, 4 Bgr. 2	200
Glycerinfl.dr.	
Waterfl.rd.	12

Mix the two coloring matters in a mortar, and reduce them, if in lumps, to a moderately fine powder. Transfer this to a tared flask, add the glycerin and water, and heat the flask on a water bath, frequently agitating, until the colors are dissolved. Then allow the flask to cool, replace it on the scale and restore the loss of water.

#### Ink, Hectograph, Green.

Aniline green Dgr.	
Acetic acid, glacialdrops	5
Glycerinfl dr.	11/2
Alcoholfl.dr.	1
Distilled waterfl.dr.	7

Dissolve the dye in a mixture of the other ingredients by the aid of heat.-D.

# Ink, Hectograph, Red.

Distilled water,	Eosin, ff	40gr. 180	
Glycerin		water fl.dr. 63	2
	Glycerin	fl.dr. ½	1

# THE STANDARD FORMULARY.

Aniline redgr.	120
Alcohol	
Acetic acid, dilutedfl.dr.	
Waterfl.dr.	4
II.	
Rosanilinegr.	100
Waterfl.oz.	
Alcohol fl.dr.	1

IV. A satisfactory ink can also be prepared by dissolving rosaniline in a cold saturated solution of oxalic acid.

# Ink, Hectograph, Violet.

#### I.

Methyl v	riolet, 3	5 B	١.,		 	 	gr.	48
Alcohol .				 	 	 	fl.dr.	1
Distilled	water.			 	 	 	fl.dr.	71/2

Dissolve the methyl violet in the alcohol and water by the aid of gentle heat.-D.

#### 11

τ

Aniline violet	20
Alcoholfl.dr.	1
Acetic acid, dilutedfl.dr.	
Waterfl.dr.	7
П.	
Violet anilinegr.	40
Alcoholfl.dr.	

Glycerin	4				í.	,								fl.	dr.	1
Water	-	•	•	•	,		•	•	•	•		•		fl.	dr.	2

Dissolve by trituration.

#### IV.

Hoffmann's violet, BBBgr. 1	120
Alcoholfl.oz. 2 or	
Glycerinfl.dr.	4
Waterfl.dr	4

Dissolve the dye in the alcohol, add the other ingredients and evaporate on a water bath to  $1\frac{1}{2}$  av.ounces.

#### V.

Aniline violetgr.	60
Distilled water, hotfl.dr.	7
Alcoholfl.dr.	
Glycerinfl.dr.	1/2
Carbolic aciddrops	5

# Inks, Indelible.

All the inks under the heading of "Inks, Marking," are indelible and are intended for marking clothes. There are also a number of the formulas under the titles of "Inks, Stamping" and "Inks for Rubber Stamps," which are indelible and which differ from the marking isks only in the fact that the former are applied with a pen and the latter with a stamp.

# Inks, Invisible or Sympathetic.

Invisible or sympathetic inks are fluids used for writing purposes, the characters made with them being invisible, but becoming visible upon the application of heat or of some suitable reagent. Writing made with those inks which becomes visible upon the application of heat, again becomes invisible upon cooling; on the contrary, writing developed by chemical action remains permanent.

. Cobalt chloridegr.	150
Glycerinfl.dr.	3/2
Waterfl.oz.	3

Mix and dissolve the ingredients.

The characters traced with this ink become blue on gently heating the paper.—D. II.

Linsee	d	oi	۱.								 		. m.	25
Water	of	3	m	m	OI	nì	a.		4				fl.oz.	1
Water											 		fl.oz.	õ

To make the writing or the drawing appear which has been made upon paper with the ink, it is sufficient to dip it into water. On drying, the traces disappear again, and reappear by each succeeding immersion.

The mixture must be agitated each time before the pen is dipped into it, as a little of the oil may separate and float on top, which would of course, leave an oily stain upon the paper.

III. Write with tincture of iron chloride, diluted with 10 parts of water, and develop with a blotter moistened with a solution of tannin or decoction of nutgalls or strong tea.

This may be reversed by writing with a decoction of nutgalls and developing with the blotter moistened with tincture of iron.

The characters when developed are black. Instead of using nutgalls to develop the iron, potassium or ammonium, sulphocyanide solution may be employed. The writing will then appear red.

IV. Write with a solution of ferrocyanide of potassium in 20 parts of hot water. Develop with a blotter moistened with a solution of iron chloride.

This operation may, like the preceding, be reversed.

The characters when developed are bine.

V. Copper sulphate and ammonia, equal parts, dissolved in water. The writing turns yellow when exposed to heat.

The ammonium chloride may be replaced by potassium bromide.

Lemon juice, or the mineral acids diluted, solution of salt, saltpetre and many other substances, when the writing is exposed to heat, turn yellow or brown.

VI. A weak solution of nickel chloride, mixed with chloride of cobalt, turns a beautiful green when exposed to heat.

VII. Copper, dissolved in muriatic acid and diluted (or a solution of copper chloride), becomes yellow when the writing is heated, and disappears when cold.

VIII. A solution of cobalt acetate, to which a little nitrate of cobalt is added, becomes rose color when the writing is heated, and disappears when cold.

#### Inks, Marking.

These are the inks intended for marking clothes prior to passing them through the laundry.

In order to distinguish from branding inks, read article under "Inks, Branding." See also "Inks, Indelible."

# Ink, Black, Marking.

T.

Silver nitrateav.oz.	5
Gum arabicav.oz.	3
Stronger water of ammonia fl.oz.	12
Lampblackgr.	180

Dissolve the silver nitrate and gum arabic in the animonia water, by frequent agitation in a dark amber bottle, then incorporate the lampblack with this solution by trituration.

In using, write with a quill pen, allow the writing to dry, then pass a hot iron over it.

If the quantity of gum be inreacsed to 5 fluidounces, the ink may be spread on a plate of glass and a rubber stamp may then be used to apply it. When the mark is dry, it hould be ironed as in the preceding case.— D.

II. The indelibility of this ink depends on the fact that when potassium bichromate and gelatin come together, particularly in the form of a thin film, in the presence of daylight, the film becomes insoluble in hot or cold water.

	2
Potassium bichromategr.	2
Nigrosingr. 1	0
Waterfl.oz.	1

Dissolve the gelatin and the nigrosin in most of the water, and the potassium bichromate in the remainder. Mix the two solutions in an amber-colored bottle.

If it is found that the ink "gums" in the pen, the quantity of gelatin and bichromate may be somewhat reduced.

The ink, when properly made, cannot be entirely removed by hot or cold water, acids or alkalies.

III.

V.

Asphalt, i	n	pieces.	 	 	av.oz. 2
Benzol					
Coal tar.			 	 	av.oz. 8

Dissolve the asphalt in the benzol and add the coal tar.

In using the ink, employ an ordinary pen, and if it should be too thick, thin it with a little oil of turpentine. This ink does not spread, and requires no heating. It never fades, and it is not affected by anything.

IV.	
Silver nitrategr.	240
Infusion of nutgallsfl.dr.	1
Acaciagr.	60
Distilled waterfl.oz.	4

Dissolve the silver nitrate in 4 fluidounces of water. In the remainder of the water dissolve the acacia and add the infusion. Then mix the two liquids. The infusion of nutgalls should be made by pouring 4 fluidrams of boiling distilled water upon 15 grains of powdered nutgalls.

This is Woodhouse's indelible ink.

Shellac					 gr. 480
Borax					 gr. 240
					gr. 240
					.sufficient to color

Dissolve the borax in 9 fluidounces of water, and boil with the shellac until nearly all is dissolved; filter, and add the gum, previously dissolved in 2 ounces of water. Then color with sufficient lampblack.

VI. The following is Boettger's formula for an indelible marking ink:

Aniline blackgr.	60
Acaciagr.	
Hydrochloric acid, concentrated.fl.dr.	1
Alcoholfl.oz,	
Waterfl.oz.	31/2
The investor when and the share had	Land.

Friturate the aniline with the alcohol and

acid mixed, then add a warm solution of the gum in the water.

This ink does not act upon steel pens, and is indestructible by strong acids or alkalies.

If the deep-blue liquid first produced is diluted (instead of with solution of acacia) with a solution of 75 to 90 grains of shellac in alcohol, a varnish is obtained which may be used to apply a jet-black coat to wood, metal, or rubber.

#### VII.

Silver nitrateav.oz. 1
Ammonia water, 10 per cent sufficient
Acaciaav.oz. 1
Sodium hydrate,
Soluble black anilinegr. 190
Distilled waterfl.oz. 6

Dissolve the silver nitrate in 3 fluidounces of distilled water and add 2 fluidounces of ammonia water, or sufficient to dissolve the brown precipitate formed at first. To this liquid add the acacia and sodium hydrate, first dissolved in the remainder of the water; heat gently for 10 minutes, and finally, dissolve in the mixture the aniline.

#### VIII.

Aniline oil	
Potassium chlorate	
Hydrochloric acid, purefl.oz.	
Copper chloride, puregr.	500
Distilled waterfl.oz.	9

Mix the aniline oil, potassium chlorate, and 5 fluidounces of distilled water in a capacious flask and heat on a water bath to a temperature of 80 to 90 degs. C., until the chlorate is completely dissolved. Now add one-half the acid, heat again until the liquid begins to darken; to the liquid add the copper chloride, dissolved in the remainder of the water, and finally, add the remainder of the acid, and heat again on a water bath until the mixture has acquired a fine red-violet color. Set the mixture aside for several days in a well-stoppered vessel and decant the clear liquid from the trifling precipitate.

This ink must be applied by means of a quill-a steel pen is quickly corroded by it. It is suited only for marking fabrics made of vegetable fibers (linen, cotton, etc.), and cannot be used on wool or silk. Writing made with it appears at first pale reddish, turning separately in 3 fluidounces of water, mix the green on exposure to light, and, when washed solutions, and add the ammonia. Dissolve

with water containing soap or alkali, changes to deep black.

This ink may also be used with a rubber stamp as a stamping ink .- D.

# Ink, Marking, Blue.

•	Silver nitrategr. 241	1
	Stronger ammonia waterfl.dr. 15	2
	Sodium bicarbonategr. 240	
	Copper sulphategr. 120	)
	Mucilage of acaciafl.oz.	8
	Distilled water, enough to make. fl. oz.	3

Dissolve the silver salt in the ammonia, and the soda and copper salt in a portion of the water; mix the two solutions and add the mucilage and the remainder of the water. If the ammonia water mentioned above is insufficient for solution, more should be added.

Ink, Marking, Red (Crimson or Carmine.)

Silver nitrategr.	120
Sodium carbonate, puregr.	180
Tartaric acidgr.	40
Stronger water of ammoniafl.dr.	4
Carminegr.	1%
Sugargr.	90
Gum arabicgr.	150
Distilled water	ient

Dissolve the silver nitrate and sodium carbonate separately in 16 fluidounces of distilled water, and mix the solutions. Wash the precipitate by decantation with 32 fluidounces of water three times; collect on a filter, and wash with a fourth pint of water; drain well; transfer the precipitate to a mortar and rub up with the tartaric acid; when effervescence ceases, add the ammonia (in which the carmine has been dissolved), then the sugar and gum (previously made into a cream with water). Finally, make up to 16 fluidounces with distilled water.

II.

Silver nitrate	120
Tartaric acidgr.	120
Ammonia waterfl.oz.	1
Gum arabicgr.	180
Sugargr.	120
Carminegr.	5
Distilled water, enough to make.fl.oz.	4

Dissolve the silver nitrate and the acid

the gum and sugar in water, triturate this with the carmine, add the first solution, mix well, and add the remainder of the water.

#### Ink Stains, Indelible, to Remove.

Inasmuch as these inks usually contain silver, the staining is caused by the latter. One method of removing the stain consists in soaking in solution of common salt, which forms silver chloride, and then washing with ammonia.

Another method recommended is to treat the stains with iodine, and then with potassium iodide solution.

# Ink, Stamping. (Rubber-Stamp Inks.)

Some of these inks are used as marking inks for clothes; in general they are intended for stamping paper. See also "Inks, Metal Stamp."

#### I.

Aniline blue, water soluble, I B.av.oz.	34
Vellow dextrinav.oz.	21/2
Distilled waterfl.oz.	214
Glycerinfl.oz.	14´¯

Mix the dye and dextrin, dissolve by the aid of a water bath in the water, add the glycerin, and replace the water lost by evaporation.

Other colors are produced by substituting for the blue any one of the following:

Methyl violet B, violet colorav.oz. Diamond fuchsin I, red colorav.oz. Methyl green, yellowish-green	14 1/2
colorav.oz.	1
Vesuvin B, brown colorav.oz.	11
Phenol black Bav.oz.	34
Eosin, BBN red colorav.oz.	X
—I	).

Π.

Sodium carbonateav.oz.	1
Glycerinfl.oz.	
Acaciaav.oz.	
Silver nitrateav.oz.	
Ammonia waterfl.oz.	1
Venice turpentineav.oz.	1/2

Triturate the sodium carbonate, gum arabic and glycerin together. In a separate flask dissolve the silver nitrate in the ammonia water, mix the solution with the triturate and heat to boiling, when the turpentine is to be added with constant stirring. After stamping, expose to the sunlight, or use a hot iron. The quantity of glycerin and gum arabic may be varied to suit circumstances.

# III.

Borax	av.oz. 1
Shellac, bleached	av.oz. 1
Mucilage of acacia	.fl.oz. 1
Ultramarine blueav.oz.	1/2 to 1
Water,	/-
Glycerin	suffiient

Dissolve the borax in 10 fluidounces of water, heat to boiling, add the shellac, and dissolve. Now triturate the mucilage with the ultramarine, add this to the shellac solution, and then enough of equal parts of water and glycerin to make 12 fluidounces.

IV. Take of the finest quality of lampblack and rub into a smooth paste with a sufficient quantity of glycerin; or take a good black printer's ink and thin the same with kerosene.

Ink, Stamping (for use with metal stamps).

Rubber-stamp inks usually have glycerin as a vehicle; metal-stamp inks may have oil or glycerin as a vehicle, and hence the preceding rubber stamp inks may be used as metal-stamp inks, or the formulas given below. The formulas mentioned are of two varieties, one containing the coloring matter in suspension, the other in solution.

I. Mixture of pigments with oil:

Α.		
Ultramarine	blue	av.oz. 1
Olive oil		fl.oz. 3

Mix intimately.

B.	
Prussian blueav.oz. 1/4	6
Prussian blueav.oz. 4 Ultramarine blueav.oz. 4	2
Olive oil	
Prepare like the preceding. The prussian	ı
blue alone does not mix readily with oil, and	l
hence the ultramarine is added.	
С.	
Verdigrisav.oz. 21/2	í
Oleic acidfl.oz.	É
Olive oil fl. oz. 7	

Prepare like the preceding.

D.

Cinnabar or vermillionav.oz.	4
Olive oilfl.oz.	6
Prepare like the preceding.	
Е.	
Gas carbon or lampblackav.oz.	1 %
Olive oilfl.oz.	84

II. Solution of dye in oil:

Α.

Bordeaux red aniline, oil solublegr.	72
Scarlet red aniline, oil solublegr.	72
Oleic acid, crudefl.dr.	5
Castor oil fl.oz.	10

Mix the dyes intimately with the acid, gradually incorporate the oil, and heat the whole to 40 degs. C., agitating constantly meanwhile.

This makes a nice red color.

#### B.

Aniline blue, oil soluble gr. 1	144
Oleic acid, crudefl.dr.	5
Castor oilfl.oz.	10

Prepare like the preceding.

#### C.

Aniline viol	et, oil solu	ble	gr. 144
Oleic acid,	crude		fl.dr. 5
Castor oil			fl.oz. 10

Prepare like the preceding.

#### D.

Aniline					
Oleic ac	id, cru	de	 	.fl.dr.	6
Castor o	il		 	.fl.oz.	10

This mixture stamps blue-black.

#### E.

Aniline blue, oil solublegr.	120
Aniline lemon yellow, oil soluble.gr.	72
Oleic acid, crudefl.dr.	5
Castor oilfl.oz.	
Prepare like the preceding.	

This mixture stamps green .- D.

#### Ink, Stencil.

As a stencil ink, use No. I., Branding Ink, and increase the amount of pigment.

# Ink, Typewriter.

Typewriter ink is of two kinds, one being made with petrolatum and lampblack or similar pigment, the other with glycerin and alcohol and aniline color.

In making the first kind, put some best-quality petrolatum into a suitable vessel, and melt it by placing the vessel on a fire; then put in as much lampblack or bone black as the petrolatum will take up without becoming granular. To effect this incorporation the black pigment should be put in a little at a time, and the whole thoroughry stirred while making the additions. Be careful not to let iron; or if too dry, brush it again with glycerin. the petrolatum be in excess, as it will cause The secret of the ribbon giving out its

the print to have a greasy outline; while on the other hand, if the pigment be in excess, the print will not be clear. Ordinary bone black does not make a good product; purified animal charcoal will do better.

When a proper mixture of petrolatum and pigment has been made, remove the vessel from the fire, and while it is cooling mix equal parts of petroleum, benzin and oil of turpentine, and in this mixture put the black petrolatum compound, mixing in a little of the other, with constant stirring, so as to effect a thorough combination, and the petrolatum compound becomes dissolved. The quantity of the volatile solvent should be sufficient to render the fluid ink of the consistence of oil paint; the result will be a good, permanent black ink, which will not be rubbed off with water like aniline inks. For colored inks of this class use prussian blue, red lead, chrome yellow; and for inks of the aniline class use these dyes dissolved in equal parts of alcohol and glycerin; thus, for a black aniline ink dissolve one-half av-ounce of aniline black in 13 fluidounces alcohol, and then add the glycerin. Ink the ribbon in the usual way.

Having prepared the ink, proceed to ink the ribbon; the secret of success lies in the proper application of the ink to the ribbon. Thus: wind the ribbon on a piece of cardboard, spread on a table several layers of newspapers, then unwind the ribbon in such lengths as may be most convenient, and lay it flat on the paper; apply the ink, after well shaking it, by means of a soft brush, and rub it well into the interstices of the ribbon with a toothbrush. Hardly any ink should remain visible on the surface.

For inking typewriter ribbons the following process is also recommended: Into 2 fluidounces of any aniline writing ink put a teaspoonful of mucilage of acacia, and a teaspoonful of brown sugar, warm the mixture, and immerse the ribbon from the typewriter long enough for it to become well saturated. When dry, spread the ribbon on a board and brush it well with glycerin. Should there be too much color in the ribbon, press it out between absorbent papers with a warm flat-

color is the glycerin, and if there is body I. enough in the color there is no danger that it cannot be made to work well. A ribbon so prepared is not affected by the dryness or humidity of the atmosphere.

It is necessary that the ribbon should retain a certain degree of moisture, for the gum and sugar make it dry and harsh, so the glycerin coating is put on; but there is danger of smearing the paper with too much moisture, or a wrinkled surface, and the ironing obviates this.

Users of the typewriter should so set a fresh ribbon as to start at the edge nearest the operator, allowing it to run back and forth with the same adjustment until exhausted along that strip; then shift the ribbon forward with the width of one letter, running until exhausted, and so on. Finally, when the whole ribbon is exhausted the color will have been equally used up, and on re-inking the work will appear even in color, while it will look patchy if some of the old ink has been left here and there, and fresh ink applied over it.

The following formula may also be used to make a typewriter ink:

Transparent soapav.oz.	1
Glycerinfl.oz.	
Waterfl.oz.	
Alcoholfl.oz.	24
Aniline colorsuffici	ent

Dissolve the soap in the water and glycerin by the aid of heat; dissolve the aniline color in the alcohol and mix the solution. If the ink is too soft, add more soap.

For the aniline color, use any suitable coal tar dye.

#### Insect Destroyers.

Insect destroyers are mentioned under the headings "Bedbug Exterminators," Croton Bug Exterminators," "Flea Exterminators," "Fly Exterminators," "Insecticides for Agriculturists," "Insects in Drugs," " Lice Exterminators, " " Mosquito Essence," "Mosquito Pastilles," " Mosquito Powder," "Moth Essence," "- Moth Paper," "Moth a little more oleic acid should be added, 150 Powder, " " Moth Species, " "Roach Pastes," and "Roach Powders." Other insecticides resulting product might be called "Mitigated are mentioned here:

Resin	av.oz. 1
Oil of amber, crude	fl.oz. 1
Benzin	
II.	
Sodium borosalicylate	gr. 150

Decoction of quassia.....fl.oz. 16

This bitter solution, in Germany known as "liquor insecta fugans," is claimed to be one of the very best applications to ward off biting insects of any kind.

III. The following preparation is known as "tincture of insect flowers."

Insect powder.....av.oz. 234 Alcohol .....sufficient Make 10 fluidounces of tincture.

It may be applied as a preventive of insect stings; it may also be used, when mixed with an equal volume of alcohol, as a spray for the destruction of flies .- D. modified.

An ethereal tincture may be prepared in a similar manner, using spirit of ether as a menstruum. It is to be used like the preceding.-D.

A perfumed or compound tincture may be prepared as follows:

Tincture of insect flowersfl.oz.	
Coumaringr.	
Camphorgr.	400
Oil of anisem.	80
Eucalyptolav.oz.	80

Mix, set aside for several days, and filter. IV. It has been proposed to abandon arsenic and its compounds as an insect destroyer, and to replace them with naphthalin, benzin, petroleum, carbon disulphide and chloroform. The latter liquid (which is not itself inflammable at ordinary temperatures) is capable of materially reducing, or altogether neutralizing the inflammability of the three liquids previously mentioned.

It is necessary to get the naphthalin into solution. For this purpose Hager recommends to mix 2 pounds of soft soap with 1 quart of boiling water, and to gradually add, under energetic agitation, 300 grains of olcic acid. If a sample of this is diluted and shaken with an equal volume of alcohol, and if it then still possesses an alkaline reaction, grains being probably amply sufficient. The Green Soap."

The parasiticide liquids may be prepared as follows:

1. Liquor Naphthalini Benzinatus:

Naphthalinav.oz	. 3
Chloroformfl.oz	. 4
Benzinfl.oz	. 11 1/2

Mix at a temperature between 18 and 20 degs. C., and shake until solution has been effected.

2. Liquor Naphthalini Sulphocarbonatus:

Naphthalinav.oz.	6
Chioroformfl.oz.	101/2
Carbon disulphidefl.oz.	7

Prepare like No. 1.

For use in a more fluid form, either of these liquids is to be properly diluted; the following being a good formula:

Common family soap, dryav.oz.	1/2
Castile soap, dryav.oz.	1/2
Waterfl.oz.	18
Alcoholfl.oz.	11
Liquor naphthalini benzinatusfl.oz.	

Dissolve the soaps in the water and alcohol, previously mixed, allow the liquid to become cold, and then add the naphthalin solution. Before using the liquid, shake it thoroughly.

If an ointment is required,  $8\frac{1}{2}$  av.ounces of petrolatum and  $1\frac{1}{2}$  av.ounces of ceresin are melted together, and before the mass sets 18 fluidounces of the liquor naphthalini benzinatus mixed with it.

If either of these is to be used as a parasiticide upon animals, it should be applied with a stiff brush, in quantity only large enough to moisten the skin or to render the hair or fur slightly glossy. Under all circumstances is it preferable to avoid using these compounds at night time, as accidents may occur by approach to or contact with flames.

# Insects in Drugs.

Insects attack many drugs, and an excellent manner to destroy these insects, cs well as to prevent their ravages is to pour some chloroform into the container, which should be well closed. Upon exposure of the drug to the atmosphere, the chloroform will be volatilized.

#### Insecticides for Agriculturalists.

Under this heading are mentioned various sene, and churn vigoro mixtures which are useful to the farmer for emulsify the kerosene.

the destruction of various insects that infest and destroy plants.

Riley Hubbard Kerosene Emulsion:

This insecticide acts by contact, and is applicable to all non-masticating insects (sucking insects, such as the true bugs, and especially plant lice and scale insects), and also to many of the mandibulate insects when the use of arsenites is not advisable. Kerosene emulsion may be made by means of various emulsifying agents, but the most satisfactory sbustances, and those most available to the average farmer and fruit-grower, are milk and soapsuds. In each of these cases the amount of emulsifying agent should be one-half the quantity of kerosene.

One of the most satisfactory formulas is as follows:

Kerosene.....gals. 2 Common soap or whale-oil soap.av.oz. 8 Water .....gal. 1

Dissolve the soap in the water by the aid of heat, and add the solution boiling hot to the kerosene. Churn the mixture by means of a force pump and spray nozzle for 5 to 10 minutes. The emulsion, if perfect, forms a cream which thickens upon cooling, and should adhere without oiliness to the surface of glass. No free oil should rise from surface of the liquid, as this would injure the foliage.

For use against scale insects, dilute one part of the emulsion with 9 parts of water. For most other insects, dilute one part of the emulsion with 15 parts of water. For soft insects, like plant lice, the dilution may be carried to from 20 to 25 parts of water. For most insects the proper dilution is with 15 parts of water. This liquid should be applied by force, and enough used to thoroughly wet the insects.

The milk emulsion may be produced by the same methods as the above.

# Cook's Kerosene Emulsion:

Soft soap.				quart 2
				quart 1
Water	•••	• • • • •	• • • • • • • • •	gal. 1

Boil the soap with the water until all is dissolved; remove from the fire, add the kerosene, and churn vigorously for 10 minutes to emulsify the kerosene.

This should be diluted with an equal bulk of cold water before using. It should be applied like the preceding.

One-half pound of hard soap may be substituted for the soft soap.

Glaser's Tobacco Insecticide:

Soft or green soapav.oz.	3
Tobaccoav.oz. 1	11/2
Fusel oilfl.oz.	212
Alcohol fl.oz. 8	
Watersufficien	t

Disselve the soap in 8 fluidounces of water; make about 8 fluidounces of infusion from the tobacco, mix the two liquids, add the remaining ingredients, and then enough water to make 1 quart.

This is to be sprinkled on the leaves of the infected trees.

Nessler's Tobacco Insecticide:

Green soap	4
Extract of tobaccoav.oz.	6
Animal oilfl.oz.	
Alcoholfl.oz.	20
Waterfl.oz.	

Dilute with 5 volumes of water before use.

Tobacco Decoction:

Tobacco	leaves of	or stems	av.oz.	16
Water			gal.	3

Boil the tobacco with the water for one-half hour. Replace the water lost by evaporation and use without further dilution.

This is very effective against plant lice and soft caterpillars. Unlike the kerosene emulsion, it never burns the foliage. It is also an excellent fertilizer. It is especially recommended for indoor plants and small gardens.

The Resin Washes:

These insecticides act by contact, and also in the case of scale insects, by forming an impervious coating which effectually smothers the insects treated. These resin washes vary in efficacy according to the insect treated. Experience has shown that the best formula for the red scale (Aonidia aurantii Maskell) and its yellow variety (A. citrinus Coquillett) is as follows:

Resinav.lb.	312
Caustic sodaav.lb.	1
Fish oilfl.oz.	
Water to makegal.	20

kettle and a sufficient quantity of cold water taken not to chill the wash by adding large

added to cover them; they are then boiled until dissolved, being occasionally stirred in the meantime, and, after the materials are dissolved, the boiling should be continued for about an hour, and a considerable degree of heat should be employed, so as to keep the preparation in a brisk state of ebullitioncold water being added in small quantities whenever there are indications of the preparation boiling over. Too much cold water, however, should not be added at one time or the boiling process will be arrested and thereby delayed; but, by a little practice the operator will learn how much water to add so as to keep the preparation boiling actively. Stirring the preparation is quite unneecessary during this stage of the work. When boiled sufficiently it will assimilate perfectly with water, and should then be diluted with the proper quantity of cold water, adding it slowly at first, and stirring occasionally during the process. The undiluted preparation is pale-yellowish in color, but by the addition of water it becomes a very dark brown. Before being sprayed on the trees it should be strained through a fine wire sieve, or through a piece of Swiss muslin, and this is usually accomplished when pouring the liquid into the spraying tank, by means of a strainer placed over the opening, through which the preparation is introduced into the tank.

The preparing of this compound will be greatly accelerated if the resin and caustic soda are first pulverized before being placed in the boiler, but this is quite a difficult task to perform, and is unnecessary.

This insecticide may be applied at any time during the growing season.

A stronger wash is required for the San Jose scale (Aspidiotus perniciosus Comstock), and the following gives the best results:

Resinav.lb.	6
Caustic sodaav.oz.	29
Fish oilfl.oz.	15
Water, enough to makegal.	20

Place all the ingredients in a kettle and cover with water to the depth of 4 or 5 inches. boil briskly for about 2 hours, or until the compound can be perfectly dissolved with water. When this stage is reached the kettle The necessary ingredients are placed in a should be filled up with water, care being quantities of cold water at once. It may be thus diluted to about 8 gallons, the additional water being added from time to time as it is used.

This preparation should only be applied during winter or during the dormant period. Applied in the growing season, it will cause the loss of foliage and fruit.

In the application of both these washes a very fine spray is not essential, as the object is not simply to wet the tree, but to thoroughly coat it over with the compound, and this can be best accomplished by the use of a rather coarse spray, which can be thrown upon the tree with considerable force.

For Subterranean Insects:

Recent experiments have shown the practical value of the resin compounds against the grape phylloxera, and they will also be applicable to the apple-root louse and other underground insects. The cheapest, and at the same time one of the most satisfactory compounds experimented with is the following:

Caustic	soda	 av.1b	. 1
Resin		 av.lb	. 8
Water to	o make	 gal	. 10

Dissolve the soda over fire with 1 gallon of water, add the resin, and after it is dissolved, and while boiling add water (slowly) to make 10 gallons of compound. For use dilute to 100 gallons. Excavate basins about the vines 6 inches deep and about 2 feet in diameter, and apply to each vine 5 gallons. The result will be more satisfactory if the treatment is made early in the spring, so that the rain of the season will assist in disseminating the wash about the roots.

The kerosene emulsion made according to the formula given above is also applicable to certain underground insects in cases where it will not prove too expensive; as, for instance, the grape phylloxera, or where white grubs are infesting a valuable lawn. It may then be used in the proportion of 1 part of the emulsion to 15 gallons of water, applied liberally to the soil, and afterward washed down at frequent intervals with large quantities of water for several days. This can be done only where there is plenty of water at

hand, but will be found of great value in special cases.

In other cases carbon bisulphide may be used for specific and local underground forms. Nests of ants, for instance, may be destroyed by pouring an ounce of this substance into several holes, covering them with a wet blanket for 10 minutes, and afterward exploding the vapor at the holes with a torch. Against onion, cabbage, and radish maggots this substance may also be used, by punching a hole with a sharp stick at the base of the plant and pouring in a teaspoonful of the liquid, covering afterward with earth.

The Arsenites:

These poisons (paris green or london purple) are of the greatest service against all mandibulate insects, as larvæ and beetles, and they furnish the most satisfactory means of controlling most leaf-feeders, and the best wholesale remedy against the codling moth. Caution must be used in applying them on account of the liability of burning or scalding the foliage.

The poisons should be thoroughly mixed with water at the rate of from 1 pound to 100-250 gallons of water, and applied with a force-pump or hand spray-nozzle. In preparing the wash it will be best to first mix the poison with a small quantity of water, making a thick batter, and then dilute the latter and add to the reservoir or spray-tank, mixing the whole thoroughly. When freshly mixed, either london purple or paris green may be applied to apple, plum and other fruit trees (except the peach) at the rate of 1 pound to 150-200 gallons, the latter amount being recommended for the plum, which is somewhat more susceptible to scalding than the apple. White arsenic does little if any injury at the rate of 1 pound to 50 gallons of water. It has been shown, however, that when allowed to remain for some time (two weeks or more) in water the white arsenic acts with wonderful energy, scalding when used at the rate of 1 pound to 100 gallons from 10 to 90 per cent of the foliage. The action of the other arsenites remains practically the same, with perhaps a slight increase in the case

With the peach, these poisons, when ap-

plied alone, even at the rate of 1 pound to 300 or more gallons of water, are injurious in their action, causing the loss of much of the foliage.

By the addition of a little lime to the mixture, london purple and paris green may be safely (applied at the rate of 1 pound to 125 to 150 gallons of water) to the peach of the tenderest foliage, or in much greater strength to strong foliage, such as that of the apple or most shade trees.

Whenever, therefore, the application is made to tender foliage, or when the treating with a strong mixture is desirable, lime water, (milky, but not heavy enough to close the nozzle) should be added at the rate of about 2 gallons to 100 gallons of the poison.

Pure arsenic, however, should never be used with lime, as the latter greatly increases its action.

With the apple, in spraying for the codling moth, at least two applications should be made-the first on the falling of the blossoms, the apples being about the size of peas, and the second a week or 10 days later-but, the poison should never be applied after the fruit turns down on the stem, on account of the danger of the poison collecting and remaining permanently in the stem cavity.

For the plum curculio on the plum, cherry, peach, etc., two or three applications should be made during the latter part of May and the first half of June. In the case of most leaf-feeders, spray on the first indication of their presence.

The following formula may also be employed:

Paris green or london purple.

	.av.oz. 3 to 4
Fresh lime	av.oz. 8
Flour	av.oz. 16
Water	gal. 45

Shake the lime in a gallon of water and rub till smooth; then strain and stir in the arsenite. Boil the flour to a thin paste. Dilute the arsenite with the necessary water, then add the flour paste and use. This is the standard remedy for all kinds of leaf-gnawing insects. A good sample of london purple is just as effective as paris green, and usually costs less. The lime is added to neutralize with the other powders. any soluble arsenic compounds, and the flour sional bug exterminators.

is used to make the arsenite adhere better to the foliage.

Caution necessary in use.

The relative susceptibility of apple, plum and peach has just been indicated under the head of arsenical poisons, and these remarks apply equally well to the use of the kerosene emulsions. In the case of other plants thorough experiments are necessary, and all insecticides should be first used in comparatively high dilution. In general it may be said that tender young foliage is more susceptible, and must be carefully treated. Thin-leaved pilose plants are more readily injured, while thick leaved, glabrous species are least affected. Annual plants, such as cabbages and other garden vegetables, are more susceptible than perennials, but in the case of root crops, such as beets, turnips, radishes and potatoes, there is not the same need of caution as to damage to foliage. Damage to foliage is not shown at once, and, in case of rain following an application. another application should not be made for several days. Fruit trees should not be sprayed with arsenical poison before the blossoms fall, on account of the danger of poisoning honey bees.

# Insect Powders.

	I.
	Insect powderav.oz. 14
	Quassia, fine powderav.oz. 6
	П.
	Insect powderav.oz. 14
	Quassia, fine powderav.oz. 4
1	Naphthalin
	111.
ł	
	Insect powderav.oz 8
	Borax, powderav.oz. 8
	Oil of cedarfl.oz. 1
	Oil of pennyroyalfl.dr. 2
	IV. Persian insect powderav.oz. 8
ļ	Borax
	Boraxav.oz. 8
1	Sulphurav.oz. 4
	Oil eucalyptus fl dr. 2
	Mix. Excellent for cockroaches.
ł	V.
	Paris greenav.oz. 2
	Plaster paris
	Borax, powdered
	German chamomileav.oz. 1
l	Powder the chamomile flowers and mix

Used by profes-

# Javelle Water.

Bicarbonate of sodiumav.oz.	8
Chlorinated lime av. oz.	2
Waterfl.oz.	16
Boil the soda in the water for a few	min-
utes, add the lime, and when cold, strai	n.

# Jeweler's Bouge. (Colcothar.—Croeus Martis.)

This is usually prepared by heating ferrous sulphate to a high temperature, but a simpler method is this:

Make a tolerably strong solution of ferrous sulphate, also one of oxalic acid, filter each; add the former to the latter, with constant stirring, let stand a few hours, collect the precipitate, wash it thoroughly with water, dry, and expose to the direct flame until there is no further change of color.

# Lacquer for Brass.

Before applying lacquer to brass it must be well cleaned. This may be done by immersing in a bath of strong caustic potash, followed, after rinsing, by a bath of dilute nitric acid. Rinse in water, rub dry with chamois, and place on hot iron plate, or on top of stove, until warm. Then apply the lacquer with a soft camel's-hair pencil, making all the strokes in one direction. Some little practice is necessary in order to apply the lacquer nicely.

Similar to the lacquers are the varnishes, both being resinous solutions, intended as protectives for metals, wood, etc.

#### Lacquer for Brass, Dark.

Ι.	
Turmeric, powdergr.	480
Annatto, bestgr.	120
Saffron, Spanishgr.	120
Shellac	81/2
Alcoholfl.oz.	16

Digest the first 3 ingredients with the alcohol for 24 hours; then dissolve the shellac in the liquid, and strain.

II.	
Shellacav.oz.	
Masticav.oz.	- ¥
Sandaracav.oz.	¥
Aloes	
Turmeric, powderav.oz.	
Saffrongr.	
Dragon's bloodav.oz.	
Venice turpentinegr.	60
Alcoholfl.oz.	25

Mix; macerate for several days, agitating occasionally, and filter.

#### III.

Seed lac Turmeric, powd	er		a	v.oz.	1
Dragon's blood,	pow	der.	<b>a</b>	v. oz.	<u>¥</u>
Dragon's blood, Alcohol	••••		1	<b>l.oz</b> .	16

Macerate a week, frequently shaking; decant or filter.

# Eacquer for Brass, Gold.

Ι.		
Orange shellac	av.oz.	8
Alcohol		
Water	.fl.oz.	4

Dissolve with heat. The solution is milky from the insoluble waxy portion of the shellac. Clarify by shaking with an ounce of precipitated chalk, or by shaking with an equal volume of benzin. The benzin will separate from alcohol of this strength, and may be poured off.

II.

Gum copalav.oz.	2
Shellac	
Boiled linseed oil,fl.oz.	2
Oil of turpentine fl.oz.	10

Melt the copal and shellac; add the linseed oil, remove the vessel from the fire, and gradually add the turpentine.

# Lacquer for Brass, Red.

Alcoholfl.oz.	16
Dragon's bloodav.oz.	
Annattoav.oz.	
Sandaracav.oz.	
Oil of turpentinefl.oz.	2

Macerate, with frequent agitation, for a week; decant and filter.

#### II.

I.

Sandaracav.oz.	6
Masticav.oz.	3
Balsam of copaibaav.oz.	1
Venice turpentineav.oz.	14,
Oil of turpentinefl.oz.	2
Absolute alcoholfl.oz.	18
Shellacav. oz.	58
Dragon's bloodav.oz.	25
Alcohol fl.oz.	25

Dissolve the sandarac, mastic, copaiba and venice turpentine in the absolute alcohol and oil, and mix with a filtered macerate of the dragon's blood and shellac in the alcohol.

¥	T	T
	T	1.

Shellac	av.oz.	5
Sandarac	av.oz.	2
Mastic	av.oz.	2
Gamboge	av.oz.	1
Gamboge Dragon's blood	av.oz.	1/2
Annatto	av.oz.	- 74
Red saunders	av.oz.	34
Venice turpentine	av.oz.	1%
Alcohol	fl.oz.	25

Mix, macerate for several days, and filter.

# Lacquer for Leather, Black.

Shellacav.oz.	11/
Sandaracgr.	180
Masticgr.	90
Venice turpentineav.oz. Alcoholfl.oz.	16

Mix and dissolve, and color deep black with nigrosin.

#### Lacquer for Tin.

Alcoholfl.oz	16
Turmericav.oz.	1
Saffrongr.	80
Dragon's bloodgr.	160
Red saundersgr.	40
Shellacav.oz.	. 2
Sandaracav.oz.	· ½
Masticav.oz	
Balsam of firav.oz.	. 1/2

Reduce the drugs to powder; mix all, macerate for 7 days, agitating occasionally, and filter.

# Leather, Dyeing of.

See " Dyeing of Leather."

# Leather Polish, Blacking or Dressing.

See "Harness Blackings," "Shoe Grease," "Shoe Polish," "Shoe Dressing," and "Shoe Varnish."

# Lice Exterminators.

Pharmacists should always avoid selling fish berries (cocculus), on account of their poisonous nature, while mercurial ointment is not always desirable. The following mixture is highly recommended for killing lice and similar vermin.

I.

Boraxgr.	<b>36</b> 0
Glycerin fl.oz.	1
Decoction of quassia (1 in 5). fl.oz.	15
Mix and dissolve.	
Apply to the head once daily.	

#### П.

Naphthalinav.oz.	814
White wax or ceresinav.oz.	
Cocoanut oil. ¶ av.oz.	51
Petrolatumav.oz.	534
Oil of bergamotfl.dr.	1%
Oil of clovesfl.dr.	11
Oil of cinnamonfl.dr.	11/2
Oil of lemonm.	50

Melt the fats, add the naphthalin, stir until the latter is dissolved, allow to cool, and incorporate the oils.—H.

Use like the preceding.

III. The following may be recommended, especially as a powder for exterminating lice on the body.

Sabadilla,	powder			•					.av.oz.	16
Orris, po	wder	•	•			•	•	•	.av.oz.	4

# Linoleum, for Polishing.

Ι.		
Yellow wax	.av.oz.	1
Carnauba wax	.av.oz.	2
Oil of turpentine	fl. oz.	10
Benzin.	fl. oz.	10

Melt the two waxes, carefully add the oil and benzin, and stir until solid.—D.

Yellow waxav.oz	. 5
Oil of turpentinefl.oz	. 11

Amber varnish ..... av.oz. 5

Melt the wax, add the oil, and then the varnish.

Apply with a woolen rag.-D.

#### Linseed Oil, Boiled.

Linseed oil.....gal. 1 Litharge, powder.....av.oz. 16

Mix, heat and simmer, with frequent stirring, until a pellicle begins to form; remove the scum, and when it has become cold and has settled, decant the clear portion.

# Lubricants.

II.

See "Axle Greases."

# Magnesium Lights.

See under "Colored Fires" for such of the fires as contain metallic magnesium.

# Marble, Cleansing and Polishing.

The marble of soda fountains may be cleansed with the following:

Sodium carbonateav.oz.	2	
Chlorinated lime av.oz.	1	
Waterfl.oz.	14	•

Mix well, and apply the mixture (magma

may be necessary to repeat this operation.

The marble may now be polished by rub- of the can. bing over with kerosene. This should, however, not be applied to white marble.

recommended to cover the spot with a little mean diameter, and proceed as before. pile of powdered talcum or some fine clay. saturating with benzin, and allowing to or keg with curved staves, add the diameter remain for some time.

discolorations in marble by the use of chemi- gether; divide by 2 to get the mean diameter; cals as the polish is liable to be injured. The multiply as before by 0.7854, and finally mulfollowing powder may be used for cleaning tiply by the length of the stave, taken from marble:

Common saltav.oz. 8	
Pumice stone, powderav.oz. 4	
Chalk, powderav.oz. 4	

Mix, moisten with water, and rub over the marble, allowing to remain for some time; then wash off with soap and water.

#### Marble Busts, to Clean.

First free from all dust and then wash fabric and expose to sunlight. with very weak hydrochloric acid; do not use soap.

#### Matches, Japanese.

These can be imitated very closely by making a mixture of 5 parts of lampblack, 11 parts of sulphur and 27 parts of gun powder, rubbing each substance separately to an II. impalpable powder, and making into a paste with absolute alcohol. Dip the sticks into the paste and let dry slowly, away from a fire. Another plan is to add only enough ornaments. alcohol to make a doughy mass and to roll this out into a sheet about 4-inch thick. of gutta percha softened in boiling water, and Cut into cubes and let dry as before. When after being freed from moisture, pressed desired for use, a cube is stuck into a split strongly against the objects to be copied. straw or splints of wood, and lit. After burning a moment the material collects in a gelatin or glue, which has been dissolved ball of molten matter which sends out sparks in sufficient hot water and passed over the and scintillations much more brilliant than object previously oiled. those of the matches.

# Mathematics.

To calculate the area of a circle, square I. the diameter, and multiply by 0.7854 (or 11-14); or multiply the diameter by the circumference, and divide by 4.

To estimate the capacity of a can or any,

and liquid) to the marble with a cloth, rub- vesse! with straight sides (of the same diambing well in, and finally rubbing dry. It eter throughout), multiply the diameter by 0.7854, and this result by the height or depth

Where the vessel is larger at one end than at the other, and the sides are straight, add To remove grease stains from marble, it is the ends together and divide by 2 to get the

To measure the cubic contents of a barrel at the bung and that of the head (both meas-Care must be taken in removing stains or ured from the inner rim of the staves) tothe inside of the heads. This latter process is not absolutely mathematically correct, but is so close as to answer for all practical purposes.

# Mildew, To Remove

Mix equal parts of soft soap and starch, add half as much salt and the juice of a Apply this to both sides of the lemon.

# Molds for Taking Impressions.

I.

Sperm	iaceti	, ste	arin	L, OF	beef t	al-		
ંજિ							av. 02.	8
White	wax						av.oz.	8
-		-						

For taking impression of medals, etc.

																. av. oz.	
Beef	tailow	-	 •	•	•	•	•	•	•	•	•	•	•	•	•	. av. oz.	8

For coarse work, such as architectural

III. Flexible or elastic molds may be made

The same can be produced by the use of

Mosquito Essence. (Mosquito Tincture or Lotion.)

Eucalyptol (or oil of eucalyptus). fl.or. 1% Acetic ether ..... fl.dr. 6 Cologne water ..... ... Loz 6 Tincture of insect powder (1 in 5).....f.ce. 7%

Diluted with from 3 to 6 parts of water. This may be used as an application to the skin to prevent the attacks of mosquitoes. It may also be sprayed about the room to destroy or expel mosquitoes. II.	Mosquito Powder. I. Eucalyptol (or oil of eucalyptus). fl.oz. 1 Talcum. powderav.oz. 2 Starch, powderav.oz. 17 Mix well and sift. This enudos is to be rebled into the
Carbolic acidfl.oz. 1 Oil of peppermintfl.oz. 2 Oil of camphor, volatilefl.oz. 2 Glycerinfl.oz. 2 Oil of tarfl.oz. 4 Olive oilfl.oz. 4	This powder is to be rubbed into the exposed parts of the body to prevent the attacks of the insects. The mixture may be rendered more effect- ive by replacing 50 per cent or more of the starch by naphthalin.
III.         Ammonia water	II. Oil of pennyroyalfl.dr. 4 Naphthalingr. 120 Starchav.oz. 16 Mix well and sift. This is to be used like the preceding
Oil of pennyroyal.       fl.oz. 2         Spirit of camphor.       fl.oz. 2         Glycerin       fl.oz. 2         Oil of tar.       fl.oz. 4         Lard oil.       fl.oz. 4         This is an effective application for keeping	Moth Essence or Tincture. I. Oil of patchoulydrops 15 Oil of mirbanefl.dr. 21/2 Naphthalingr. 300 Carbolic acid, crystalgr. 300
flies and mosquitoes off horses. V. The following may be sold as "essence of pennyroyal":	Camphor
Oil of pennyroyalfl.oz. 1 Alcoholfl.oz. 15	Mix, allow to stand for several days, and filter.
VI. The following, k nown as "fulvis capu- cinorum," is also useful: Sabadilla	In using, moisten blotting or other absor- bent paper with this liquid; then lay the paper between the goods to be protected, and then pack securely in a suitable receptacle.—D. II. Capsicumav.oz. $3\frac{1}{2}$ Alcohoifl.oz. $36$
Mosquito Pastilles. I. Carbolic acidfl.dr. 6 Potassium nitrate, powderav.oz. 1½ Insect powderav.oz. 10 Charcoal, powderav.oz. 10 Make a paste with powdered traggeenth	Oil of turpentinefl.oz. 2 Naphthalingr. 360 Camphorgr. 360 Oil of cloves
Make a paste with powdered tragacanth and water and mold into pastilles.	dients, and dissolve. This is to be used like the preceding.—D.
II. Thyme leaves, coarse powder.av.oz. 2 Lavender flowersav.oz. 2 Insect powderav.oz. 2 Potassium nitrate, powderav.oz. 134 Potassium chlorate, powdergr. 72 Tragacanth, powdergr. 175 Mix well, add sufficient water to form a mass; divide into pastilles, and dry.	Moth Paper. I. Naphthalinav.oz. 4 Paraffin waxav.oz. 8 Melt together, and while still warm paint with a rather broad brush upon unsized paper.—H.
• • • • • •	• •

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# II.

Naphthalin	
Carbolic acid	av.oz. 2
Ceresin	av.oz. 2

Melt together, and spread the mixture by means of a wide brush upon unsized paper laid upon a hot surface, care being taken that this is not done near a light or fire.

If it is desired to avoid the use of a hot surface, and thus preclude any possibility of contact with light or fire, the mixture may be diluted with 1 fluidounce of alcohol. As this does not dissolve the ceresin, the mixture must be well stirred with the brush before each application.—D.

#### III.

Naphthalinav.oz.	4
Camphorav.oz.	2
Ceresin	
Oil of mirbanem. 4	<b>40</b>

Prepare like the preceding.-D.

# Moth Powder.

# I.

Naphthalinav.	oz. (	8
Starchav.		
Orris rootav.	oz. 2	2
Patchouly herbav.	oz. 2	2
Camphorav.	oz. 2	2

Reduce all to powder and mix well.

# II.

Patchoulyav.oz.	5
Valerianav.oz.	21/2
Camphorav.oz.	2
Napthalinav.oz.	1
Scotch snuffav.oz.	
Orris rootav.oz.	2%
Sumbul rootav.oz.	24
Oil of cassiafl.oz.	1
Oil of eucalyptus fl.oz.	1

Reduce the solids to fine powder and incorporate with the remaining ingredients. III.

Insect powderav.oz.	5
Camphorav.oz.	
Colocynthav.oz.	5
Oil of lavenderfl.dr.	
IV.	

Naphthalinav.oz.	3
Capsicum	3
Insect powderav.oz.	
Oil of rosemaryfl.dr.	1

Reduce the capsicum and naphthalin to fine powder and mix well with the other ingredients.

# Moth Species.

Patchouly, cut	.av.oz.	2
Rosemary, cut		
Thyme, cut	.av.oz.	4
Sage, cut	. av. oz.	4
Naphthalin	.av.oz.	4
Oil of mirbane	fl.dr.	4
Oil of turpentine	fl.oz.	1
Alcohol	fl.oz.	10

Dissolve the naphthalin and oils in the alcohol by the aid of heat, and sprinkle the solution while hot upon the mixed herbs or leaves. Introduce the mixture into bags of suitable size and lay them between the clothes to be preserved, which should be firmly wrapped, securely packed, and kept in a cool place.—D.

#### Mouse Destroyers.

See "Raticides" and "Phosphorus Pastes."

# Mucilages and Pastes.

[.	
Tragacanthav.oz. 1	
Gum arabicav.oz. 1	
Water, boiling fl.oz. 64	
Carbolic acid fl.dr. 1	
II.	
Tragacanthav.oz. 1	
Dextrin, yellowav.oz. 3	
Water	

Mix; allow the tragacanth to soften, and add more water, if desired. The mixture may be preserved by the addition of carbolic acid or of some essential oil, such as oil of cloves or wintergreen.

T	T		
м,		•	

V.

Lime, slaked	. av. oz. 1
Sugar, granulated	av.oz. 4
Glue	
Water	.fl.oz. 12

Dissolve the sugar in the water, add the lime, heat nearly to boiling, set aside for several days, decant the clear liquid, and in it dissolve the glue by the aid of a moderate heat.

IV. Take the curd of skim milk (carefully freed from cream), wash it thoroughly, and dissolve it to saturation in a cold concentrated solution of borax.

Dextrin																							
Water	•••	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	.fl.oz	8	

Heat the water, add the dextrin gradually with constant stirring, and continue the best

until the dextrin is dissolved. One fluidounce X. of acetic acid may be added to the water before heating, and to the solution may be added the same amount of alcohol to insure preservation. However, neither one is necessary if carbolic acid or an essential oil, like oil of cloves or wintergreen be added. This mucilage may be thinned when it becomes thickened by exposure, by dilution with water. A small amount of glycerin added to the mucilage will prevent curling of the paper. VI.

Dextrin, yellowav.oz.	4
Waterfl.oz.	6
Syrupy glucoseav.oz. Aluminium sulphate (not alum).gr.	4
Aluminium sulphate (not alum)gr.	120

Mix the dextrin with the water, add the glucose and aluminium sulphate, and heat the mixture to about 90 degs. C., when it will become transparent and thin.

#### VII.

Rye flourav.oz.	4
Acacia, powderav.oz.	1/2
Waterfl.oz.	24
Glycerinfl.oz.	1
Oil of clovesdrops	

Rub the flour and acacia to a smooth paste with 8 fluidounces of cold water, strain through cheese cloth, add the mixture to the remainder of the water (also cold) and apply heat until thickening ensues; then allow to cool and add the remaining ingredients.

#### VIII.

Rye flour	.av.oz. 4
Water	. fl.oz. 16
Nitric acid	
Oil of cloves	
Glycerin	

Mix the flour and water, make a smooth paste, strain through cheese cloth, add the acid, heat until suitably thickened, and the other ingredients when cool.

IX.

Wheat flour	. 41/2
Nitric acidfl.dr	. 1
Oil of cloves	s 5
Boric acidgr	
Waterfl.oz	

Mix the flour thoroughly with the boric acid and water, and strain through a sieve to avoid lumps; add the nitric acid and heat, with constant stirring, until the mixture has thickened. When nearly cold, add the oil of cloves and stir. •

Wheat flourav.oz.	16
Corn starchav.oz.	1
Alumgr.	120
Boraxgr.	120
Watersuffic	ient

Mix the solids with cold water, make a smooth mixture, add boiling water to this, stirring briskly until the whole is of about the required consistency; apply heat until a uniform paste is produced, and when cold add about 1/2 fluidram of fusel oil, which will preserve it indefinitely.

Tragacanth, powdergr.	240
Acacia, powdergr.	240
Wheat flourgr.	
Salicylic acidgr.	80
Waterfl oz.	
Oil of wintergreendrops	

Mix all but the oil; make a smooth paste, bring this to the boiling point, simmer for 20 minutes, stirring frequently, allow to cool, and add the oil.

#### XII.

Dextrin, whiteav.oz.	4
Acaciaav.oz.	2
Sugarav.oz.	1
Waterfl.oz.	

Dissolve the acacia and sugar in 6 fluidounces of cold water, and the dextrin in remainder of the water by the aid of heat; mix the solutions when cool.

XIII.

Starchav.oz.	5
Nitric acidfl.dr.	212
Gum arabicav.oz.	
Sugarav.oz.	1
Water	nt

Make a smooth mixture of the starch, 2 fluidrams of acid, and 6 fluidounces of water, and set aside in a warm place for 48 hours, stirring frequently; then boil the mixture until it becomes thick and translucent, dilute with water, if necessary, and strain. Now dissolve the gum and sugar in 5 fluidounces of water, add the remainder of the acid, heat to boiling, and add this mixture to the preceding.

This mucilage may be used by bookbinders.

XIV. Mucilage may be made to adhere to tin by first roughening the latter by rubbing with emery paper. Or to the mucilage may

be added a small amount of solution of antimony chloride.

# Mucilage, Stick or Bar.

Mucilage, in the form of sticks, is much used in architectural and mechanical drawing for attaching the drawing paper to a board, and is generally spoken of as mouth or lip glue. In making such a glue, only a very pure form of gelatin or glue should be used, as the least odor would prove disgusting when the glue is moistened with the lips. Sugar is generally added, not for the purpose of sweetening the glue, but in order to render it more easily soluble when it is to be used. This probably is brought about by the sugar preventing the glue from becoming too dry and hard. Some even use a good quality of glue without any admixture whatever, but this requires more rubbing when it is applied, although it holds better than that to which sugar has been added. The sugar may be replaced by glycerin.

I.

Glue,	best .				av.oz. 4
Isingl	ass	•••	• • • •		av.oz. 1
Brown	i suga	ar	••••	••••	av.oz. 1
water	••••	• • • •	••••	• • • • • •	sumcient

Soak the glue and isinglass in water until soft. Pour off the superfluous water, and add the sugar. Melt the whole together with a gentle heat and allow to evaporate until quite thick. Pour into a flat-bottomed dish that is quite cold, preferably placed on ice, and when solid cut the glue into the desired shape.

II.

Isinglassav.oz.	1
White glueav.oz.	1
Rock candygr.	120
Tragacanthgr.	120
Waterfl.oz.	

Boil the whole together until when cold the mixture has the appearance of glue. Then form into rolls for use.

If desired the glue, made according to either of the above formulas, may, while hot, be poured into suitable molds that have been previously well chilled.

# III.

Glue, bestav.oz 12
Sugar
Watersufficient

Soak the glue in water over night, and dissolve it by heat in the smallest possible quantity of water. Add the sugar to the hot solution, and dry the composition, like jujube paste, in oiled molds.

IV.

Gelatin																				av.oz.	4
Sugar,																					
Water.	•	•	 •	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	.fl.oz.	6

Mix, dissolve by aid of heat, and continue heating until the mixture weighs about 8 av. ounces, when it may be formed into sticks.

# Nutrient Gelatin.

Gelatinav.oz.	1
Extract of beefgr.	175
Distilled waterfl.oz.	29

Dissolve the gelatin and extract in the water, filter, heat to boiling, and divide among test tubes which have previously been treated with boiling water. Close the cylinders with plugs of cotton, which has previously been heated for some time to a temperature of 150 degs. C. then set aside for 4 weeks.

Only the gelatin mixture which remains clear is to be used; if it becomes turbid, it is to be boiled again and again until it remains clear.

Another nutrient gelatin is produced by dissolving 1 part of gelatin in 20 parts of infusion of hay.—D.

# Oil for Watchmakers.

Place a clean strip of lead in a small white glass bottle filled with pure almond (or olive) oil and expose it to the sun's rays at a window for some time, till a curdy matter ceases to be deposited and the oil has become quite limpid and colorless. Used for fine work; does not become thick by age. The finer grades of paraffin oil also are used, at least for clocks.

# Paint, Glossy or White Enamel.

Orange sheilac	av.oz.	15
Copal resin	av. oz.	5
Venice turpentine	av. oz.	1
Linseed oil, raw	fl. oz.	4
Alcohol	pints	10
Mix, and add 4 or 5 pounds of	f zinc wh	ite or
other white pigment.		

Another enamel paint may be made by mixing the pigment with a good varnish.

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### Paint Eradicators.

See "Cleansing Creams," "Cleansing Liquids,' " Benzin Jelly," and "Stains, Removal of."

# Paper, Barcmete, or Hygrometer. See " Barometer Paper."

# Paper, Blue Print.

The mixture which is to be applied to the paper consists of 2 (sometimes 3) solutions which are to be mixed just prior to use. I.

#### No. 1. Red prussiate of potassium...av.oz. Distilled water.....fl.oz. 10

No. 2.

Citrate of iron and ammonium.av.oz.	3
Distilled waterfl.oz.	
Gum arabic or dextringr.	120

Keep these solutions in separate well-stoppered bottles, which exclude actinic light. In using, mix equal parts of Nos. 1 and 2.

In preparing the sensitized paper, take a solid, firm paper, free from impurities, and apply the solution to the surface of the paper with a soft sponge or a broad, soft brush, being careful not to have the sponge or brush charged too heavily with the solution, or else the paper will have a streaked appearance, which will show in the finished print. Go over the surface of the paper in two directions at right angles to each other so as to insure an even coating. The paper must be allowed to dry in the dark, and in a horizontal position.

II.

#### No. 1.

Iron citrate, solublegr. Distilled water, enough to make.fl.oz.	
No. 2.	
Red prussiate of potashgr.	72
Distilled water, enough to make.fl.oz.	1
No. 3.	
Potassium hichromate gr	5

J Ota Salun	Dicini	om	au.	• •	••	••	• •		•••
Distilled	water.						• •	fl.oz.	1

Mix Nos. 1 and 2, add No. 3; filter quickly, and use immediately. The iron citrate should be in scales, free from powder, and should not have been exposed to light. The prussiate must also be free from any adherent powder.

gas light. Pour some of the solution into a this, and then dry.

saucer, dip a soft pad of absorbent lint into it and pass quickly across the paper; again dip the pad in solution and pass across the paper from where you left off. When all the paper has been thus coated take an artist mop varnish brush and remove the excess of liquid.

# Paper, Carbolized.

Carbolized paper, suitable for the preservation of furs, etc. from moths, can be readily prepared by applying a strong solution of carbolic acid, with a brush or sponge to any unsized paper. A heavy paper will absorb more, and consequently last longer. The paper should be kept in close boxes until wanted, and the consumer directed to place the sheets freely among the articles to be protected, and wrap them tightly in ordinary paper.

Carbolic paper may also be prepared as follows:

Petrolatum	av.oz. 4
Paraffin wax	
Carbolic acid	av.oz. 2

Melt the paraffin and petrolatum, add the carbolic acid, allow to cool and solidify, and with this prepared carbolized paper, as directed for making waxed and ceresin paper. -D.

# Paper, Ceresin.

This may be prepared similarly to waxed paper.

# Paper, Copying.

Make a stiff ointment with lard and black lead or lampblack, and smear it thinly and evenly over soft writing paper by means of a piece of flannel; let remain for a day, and wipe off the superfluous grease. Petrolatum may be substituted for lard, and forms the " Manifold Writer " of the stationers.

#### Paper, Oiled.

Brush sheets of paper over with boiled oil and suspend them on a line to dry.

# Paper, Paraffined.

This may be prepared like waxed paper, or the paper may be drawn through melted paraffin; or, a better way is to melt 8 av. ounces of paraffin, remove from the fire, add 16 fluid-To coat the paper.-This must be done by ounces of benzin; draw the paper through

# Paper, Parchment.

See " Parchment Paper."

#### Paper, Razor.

See "Razor Paper."

# Papers, Test.

See " Test Papers."

# Paper Tracing.

I.

Apply with a brush a varnish compound ot equal parts of balsam of fir and oil of turpentine to smooth unsized white paper, and hang up the sheets to dry.

## II.

Rub the paper with a mixture of equal parts of cottonseed oil and oil of turpentine; dry immediately, by rubbing it with wheat flour, and then hang up for 24 hours to dry. If washed over with ox-gall, and dried it may be written upon with ink or water colors.

# III.

Lard	
Yellow waxav.oz. 1	
Lampblackav.oz. 1	

Melt the wax, add the lard, thoroughly incorporate the lampblack, making a smooth mixture by trituration, and, while still in a fluid condition apply this mixture to suitable paper by means of a brush.

# Paper, Waxed.

Place strong white paper on a hot iron plate and rub it well with a lump of white wax, the excess to be removed by means of a cloth pad.

#### Paper, Wrapping, to Cut.

Wrapping paper of the size usually employed in pharmacies, viz.,  $24 \times 36$ , may be cut to suit the various sizes of bottles, as follows, according to Jacoby's gauge: Eight ounce,  $9 \times 10$  inches; 6 ounce,  $8 \times 9$  inches; 4 ounce,  $7\frac{1}{2} \times 8$  inches; 3 ounce,  $6\frac{1}{2} \times 7\frac{1}{2}$ inches; 2 ounce,  $6 \times 7$  inches; 1 ounce,  $4\frac{3}{2} \times 6$  inches, and  $\frac{1}{2}$  ounce,  $4 \times 5$  inches.

What remains after cutting a certain size from a sheet may be used for a smaller size, or it may be used for wrapping pill boxes and similar small packages.

# Parchment Paper.

Dip white unsized paper for one-half minute in sulphuric acid diluted with onehalf its bulk of water, then wash well with weak ammonia water.

# Pastes.

See "Mucilages."

# Paste, Library.

Rice starchav.oz.	2
Gelatinav.oz.	¥
Waterfl.oz.	16
Oil of clovesdrops	16

Incorporate the starch powder with the water, add the gelatin and heat gently over a water bath until a jelly-like compound results.

# Phosphorus Pastes.

# I.

Phosphorus	.av.oz. 1
Water (38 degs. C.)	. fl.oz. 16
Molasses	
Lard	
Oat or barley meal or flour	. sufficient

Reduce the phosphorus to fine globules by shaking vigorously with the water contained in a suitable bottle, taking care to have the hand protected with a glove, or the bottle wrapped up in a cloth, for fear of accident. When nearly cool, add the molasses, and then the liquefied lard; finally, incorporate sufficient meal or flour to form a stiff paste-II.

Phosphorus	. av. oz. 1
Water, hot.	. fl.oz. 4%
Butter, fresh	.av.oz. 6
Starch, powder	. av. oz. 6

Proceed as in the foregoing, finally adding enough boiling water to make a homogeneous paste.

#### III.

Phosphorus	av. oz.	1
Sulphur	av.oz.	X
Mustard, powder	av.oz.	5
Sugar, powder	av.oz. 1	15
Wheat flour	av.oz. \$	30
Carbon bisulphide,		
Waterof each,	sufficie	nt

Mix the sulphur and phosphorus in a suitable vessel, not metallic; add enough water to cover the two, and then mix with enough carbon bisulphide to dissolve both the phosphorus and sulphur; then add the mustard, sugar, flour and enough water to make a suitable paste.

IV.	
Phosphorus	av.oz. 2
Carbon bisulphide	
Lard	av.oz. 16
Wheat flour	av.oz. 24

Dissolve the phosphorus in the carbon bisulphide; add the lard, and then incorporate the flour.

V.

Phosphorusav.oz.	6
Sulphurav.oz.	1
Mustard, powderav.oz.	2
Sugar	8
Rye flourav.oz.	12
Waterfl.oz.	16

Mix the phosphorus and sulphur with 6 fluidounces of water, triturate until liquefied; add the mustard, sugar and flour, and the remainder of the water.

#### VI.

Phosphorusav.oz.	1
Bisulphide of carbon fl.oz.	
Lardav.oz.	В
Wheat flourav.oz.	12

Dissolve the phosphorus in the bisulphide of carbon, add the lard, and lastly make a uniform paste with the flour. This paste will not ferment and spoil.

# Plant Insect Exterminators.

See " Insecticides for Agriculturalists."

Plating with Gold, Silver, Tin, etc. The deposition of one metal upon another may be made in several ways. What is now the most common and usually most satisfactory method of deposition, generally known as "plating," is by means of the electric current; this method being known as "electroplating." Another method of deposition, which is a very inferior process, is what is technically known as "washing." This consists in the application of a solution of a salt of a metal which is to be deposited by means of a cloth. The coating of metal deposited is so infinitely thin that it very quickly wears away, revealing the inferior material beneath.

I. Gold "washing:"

Gold chloride	.av.oz. 1
Potassium cyanide	av.oz. 3
Distilled water.	fl.oz. 5
Precipitated chalk	. sufficient

Dissolve the gold chloride in 1 fluidounce of water, and the potassium in the remainder of the water; mix the two solutions and add enough precipitated chalk to make a thin paste.

After thoroughly cleaning the object to be gilded, and freeing it from grease, etc., apply this paste with a camels-hair pencil evenly over the surface. Let dry slowly at ordinary temperature. When dry, put in an oven and heat to 60 or 70 degs. C. Wash off with clean water, dry and finish by going over the surface with a burnisher.

Silver "washing: "

A-For brass only.

Silver nitrategr.	60
Potassium cyanidegr. 8	60
Precipitated chalk gr.	90
Distilled waterfl.oz.	6!5

B.-For brass, copper, iron, steel, etc.:

1.

2.

Silver oxyhyposulphiteav.oz.	1/2
Ammonium chlorideav.oz.	4
Distilled waterfl.oz.	6

Silver nitrateav.oz	. 11
Sodium chloride av.oz	. 5
Cream of tartarav.oz	. 8
Water, distilled suffici	ent

Dissolve the silver nitrate in the smallest amount of water, add the other ingredients; rub in a mortar to a smooth paste, adding sufficient water. Preserve the mixture from light.

Apply the paste by rubbing on the cleaned copper or brass until the silver layer is thick enough; then wipe with chamois skin.

#### 3.

Silver chloride			•	•					.gr.	60
Potassium bitartrate	•	•	•	•	•	•	•	•	.gr.	890
Sodium chloride					•				.gr.	180

Mix. The powder is made into a cream with water, and the article to be plated is either covered with the paint by means of a brush or immersed in the mixtures for a short time; then, after being dried, it is rubbed off and the article polished with prepared chalk. -H.

#### Nickeling:

There is no reliable method of depositing nickel from its cold solution, as in the foregoing cases, but a thin and adhesive coating may be given articles of brass, iron, etc., by the following process: Boil in a copper vessel a saturated solution of zinc chloride and an equal quantity of water. While boiling add hydrochloric acid, drop by drop, until the precipitate at first thrown down is again completely redissolved. Now add zinc in powder, until the bottom of the kettle is nearly covered with a precipitate of zinc. The bath is now ready for the addition of a salt of nickel, and you may use either the sulphate or the nitrate. Add it in sufficient quantity to give the bath a strong green color. The articles to be nickeled are now hung in the bath by means of a zinc wire, or a strip of sheet zinc, and a few pieces of the latter are thrown in along with them. Raise the heat to a strong boil and continue it for several minutes, or until the articles are covered with a bright coating of nickel. The articles should be thoroughly cleaned and free from grease before being put in the bath. When finished, rinse and then rub well with precipitated chalk.

#### Platinizing:

Platinum chloride, 1 part; sodium chloride, 8 parts; distilled water, 100 parts. Bring to a boil, and put the articles to be platinized, first thoroughly cleaned, in the vessel. Keep at a moderate temperature, and in the course of 3 or 4 hours the platinizing will be completed. Polish with chamois.

There is as yet no known method of depositing aluminium by a process similar to any of the above.

II. Brass scale pans, or any other metallic substance capable of taking a deposit of silver may be plated in various ways. Here is a method recommended by Kayser:

It is absolutely necessary that the article to be plated shall present a perfect metallic surface, free from oxides, dirt, grease, etc.; it must be thoroughly scoured, if necessary, with the intervention of acids, and afterwards carefully washed. It is then to be dipped into a solution prepared by making a saturated aqueous solution of bisulphite of sodium, and adding to the latter so much of a solution of nitrate of silver (30 parts in 100) that there are 6 parts of the silver salt for every 100 of the bisulphite. The follow-

ing would be a more simple way to state the proportions:

Sodium b	isulphite		.av.oz.	10
Distilled	water	.enough	to diss	olve
Silver niti	rate		gr.	264
Distilled	water		fl.oz.	2

Dissolve and mix.

Allow the article to remain in the mixture until it is properly coated, then take it out; wash it with water in which a little carbonate of sodium had previously been dissolved; finally wash with pure water, and dry in sawdust.

#### Polishing Paste.

See " Putz Pomades."

# Polishing Powders.

Under this heading are mentioned powderymixtures used in polishing different metals. These powders must always be impalpablyfine, particularly such as are used to polish silver and gold ware.

ſ	
L	

Chalk	10
White boleav.oz.	4
Lead carbonateav.oz.	5
Magnesium carbonateav.oz.	
Iron oxideav.oz.	1

This mixture is best adapted to brass and copper.

#### II.

Calcined magnesia.....av.oz. 9 Jeweler's rouge .....av.oz. 1

This mixture is recommended for polishing silver; it should be used dry.—D.

#### III.

Calcined magnesia.....av.oz. 8 Jeweler's rouge.....av.oz 8

This mixture is recommended for polishing gold; it should be used dry.—D. IV.

Magnesium carbonate.....av.oz. 4 Chalk .....av.oz. 4 Jeweler's rouge.....av.oz. 7

#### Polishes for Shoes and Leather.

See "Blackings," "Shoe Dressings," "Patent Leather Polish," "Shoe Varnish," and "Harness Blackings."

# Preservative Fluid.

100) that there are 6 parts of the silver salt for every 100 of the bisulphite. The followservative Fluid, which is adapted to almost all purposes (excepting the preservation of animal tissues to be used for food) and which is used in medical colleges, is as follows:

Arsenious acidgr.	90
Potassium carbonategr.	
Potassium nitrategr.	
Potassium sulphategr.	
Sodium chloridegr.	
Sodium borategr.	
Glycerinfl.oz.	
Wood alcoholfl.oz.	31/2
Waterfl.oz.	34

Dissolve the arsenious acid and potassium carbonate in 7 fluidounces of the water, using a gentle heat to accelerate the reaction, and add the remaining portion of the water, in which dissolve the other salts; add the glycerin and alcohol.

If large quantities of the liquid are to be used, it will be economical to use methylic alcohol, as ordered in the formula, otherwise common alcohol may be substituted.

Specimens may be preserved by simply immersing in the fluid, or by injecting it into the veins and intestines of the body.

The following is suggested as a substitute for Wickershiemer's preparation:

Salicylic acidgr.	240
Boric acidgr.	
Potassium carbonategr.	60
Oil of cinnamon fl'dr.	3
Oil of clovesfl.dr.	3
Glycerinfl.oz.	5
Water, hotfl.oz.	121/2
Alcoholfl.oz.	121/2

Dissolve the acids and potassium carbonate in the water; when effervescence ceases add the glycerin, and then the oils dissolved in alcohol.

This fluid is not poisonous, and possesses the desirable property of acting as an antiseptic and of having a pleasant odor.—H.

# Putz Pomades.

By this term are signified pasty or fatty mixtures intended especially for polishing copper and brass; these mixtures may be used on steel, but should never be used on silver or gold.

The fatty substance present consists of a fixed oil—oleic acid, lard, petrolatum, palm oil, lard oil, etc., mixed with tripoli, rotten stone, emery, jeweler's rouge, pumice stone, etc.; the whole being flavored, as a rule, with

oil of mirbane (nitro-benzol or artificial oil of bitter almonds). The powders must be in a very finely divided condition; it is, in fact, advisable to pass the mixture of fat and powder through a paint mill to insure fineness and smoothness.

I.

Rotten stoneav.oz. 1	6
Stearinav.oz.	8
Cottonseed oilfl.oz.	4
Oil of mirbaneenough to flavo	л

Melt the fats, incorporate the rotten stone with them, and add the oil of mirbane when cool.

II.

Oxalic acidav.oz.	1/2
Peroxide of iron (jeweler's	-
rouge)av.oz.	8
Rotten stoneav.oz.	10
Palm oilav.oz.	30
Petrolatumav.oz.	2

Pulverize the acid and add the rouge and rotten stone, mixing thoroughly. Sift to remove all grit; then gradually add the palm oil and petrolatum, and incorporate. Add oil of mirbane or oil of lavender to flavor.

III.
Rotten stone, levigatedav.oz. 2 Iron subcarbonateav.oz. 6 Oil of bitter almonds or mir- baneenough to flavor
Lard, olive or cottonseed oil.
IV.
Charcoal, fine powderav.oz. 14         Iron oxide (subcarbonate)av.oz. 3         Oleic acidav.oz. 6         Stearic acidav.oz. 3         Petroleumfloz. 6         Oil of mirbanedr. 3         Oil of citronelladr. 1
<b>v</b> .
Pumice, powderav.oz. 2 Rotten stone, powderav.oz. 2 Iron subcarbonateav.oz. 4 Olive or cottonseed oil, or oleic acidenough to form a paste Oil of mirbaneenough to fiavor
VI.
Oleic acidfl.oz. 2 Lardav.oz. 6 Jeweler's rougeav.oz. 2 Emery, powderav.oz. 1 Rotten stone, powderav.oz. 4 Oil of mirbane, sufficient to give faint odor

VII.	
Rotten stone, fine powderav.oz.       8         Oxalic acidav.oz.       2         Cottonseed oilfl.oz.       3         Oil of turpentine, enough to make a paste	
• – •	
VIII.	
Rotten stone, fine powderav.oz. 12	
Soft or green soapav.oz. 6	1
IX.	
Rouge (iron oxide)av.oz. 3	
Lard or petrolatumav.oz. 15	
Χ.	
Palm oil	
Petrolatumav.oz. 8	
Rouge (iron oxide) av.oz. 4	
Tripoli 81	4
Oxalic acidgr. 80	-
X1.	
Japan, wax	
Oleic acid, crudeav.oz. 11	
Tripoliav.oz. 7	
Oil of mirbaneenough to flavor	
If desired, armenian bole, iron oxide, o	)T

venetian red may be added to this mixture to impart color.-D. modified.

# Putz Tablets.

Soap, cut fine or powder	av. oz.	12 !
Precipitated chalk	av. oz.	15
leweler's rouge	av. oz.	34
Cream of tartar	av. oz.	1 '
Magnesium carbonate	av.oz.	- <del>N</del>
Water	sutficie	nt
This, like Putz pomade, is use	ed for po	lish- :

ing purposes.

Quinine Salts, Extempore Preparation.

Quinine Carbolate.-Quinine alkaloid, 10 When required for use, moisten and make a grains, carbolic acid, 5 grains.

Quinine Citrate - Quinine alkaloid, 15 gr. ; III. citric acid. Signains. This product is equivabent to W grains quinine citrate.

Carnine Hydrobromate.-Quinine sulphate, 100 grains, pocassium bromide, 28 grams. This product is equivalent to 100 gruns quinine beorride.

Carrie Hydrocate-Quinine sulphate. \$ grans potassian infile, 40 grans This product corresponds to 100 grains earnine sociae

We see the supervised set of arter trate. 73 grans i petasearr socide, 50 grans in re Vigrains. These constituents are intrusted together with a little account

This product corresponds to 100 grains quinine iodo-hydriodate.

Quinine Hypophosphite.-Quinine hydrochlorate, 100 grains; calcium hypophosphite, 24 grains. This product corresponds to 100 grains quinine hypophosphite.

"Quinine Lactate.—Quinine alkaloid, 70 grains; lactic acid, 35 grains. If necessary, these are triturated together with a little alcohol. This product corresponds to 100 grains quinine lactate.

Quinine Phosphate.-Quinine sulphate, 94 grains; sodium phosphate, 80 grains. This product corresponds to 100 grains quinine phosphate.

# Raticides.

I.	
Wheat flour	av.oz. 5
Fresh milk	fl.oz. 10
Mutton tallow	av.oz. 1
Sodium chloride	gr. 50
Squill, coarse powder	av.oz. 4

Mix the wheat flour and milk, then add the tallow and salt, and heat for 20 minutes over a steam-bath; lastly, incorporate the squill. -D.

This preparation is known as "Gliricin." II.

Strychnine sulphate	1%
Milk sugarav.oz.	1%
Prussian bluegr.	20
Arsenic	
Wheat flourav.oz.	12

Rub up the strychnine and milk sugar together, add the prussian blue and arsenic, and finally, add the flour, and mix thoroughly. dough; divide into small pellets and dry.

Rarium carbona	ate (fre-	shiv pre-		
cipitated.			. av. oz.	÷.
SCET			. av. oz.	- 5
Bread			. av.oz.	8
Bread Form into 100	pils.			
<b>v</b> .				
Tartar emetic .	<b>.</b> .		27.0Z.	15
Seeil protect			av. 02.	15
Squill provier Barium carbona	ice. prec	ipitated.	av. oz.	3
Koastel meat	•	• • • • •	av. 02.	15
V. Frisched wi		senia:		
Francisco and	<u>en</u> .e		37.02.	1
11 7.52			£.02.	10
Factoria .			gr.	5
Wier:		· • • • • •	av. oz.	90

Dissolve the potassium salt in the water;	Roach Pastes.
add the fuchsin and dissolve, and then mix	Many of the roach pastes are "phosphor-
with the wheat. The latter may best be	us pastes," or so-called "electric pastes."
incorporated with the poison by introducing	Others are made with red lead or other ingredi-
into a wide-mouth bottle, and gradually add-	ents. These pastes may be distributed on
ing the poisonous solution, shaking fre-	papers in the haunting places of the roaches,
quently.—D.	or they may be fed into cracks or crevices in
The coloring matter may be omitted if	which the insects hide.
desired.	I.
VI. Poisoned wheat (strychnine):	Red lead
	Flour
Strychnine nitrategr. 18 Waterfl.oz. 10	Molassessufficient to make a soft paste
Methyl violet	II.
Wheatav.oz. 20	Red lead
Dissolve the alkaloidal salt in the water,	Corn meal, powderav.oz. 8
add the methyl violet, introduce into a wide-	Molasses, sufficient to form a soft paste
mouth bottle, add the wheat; mix well by	III. See also " Phosphorus Pastes."
agitation, set aside for 6 hours, and then	Roach Powders.
take out and dry at a temperature not exceed-	These powders should be distributed liber-
ing 30 degs. CD.	ally in the localities frequented by the insects;
Strychnine sulphate may be substituted for	a blower or "gun" is excellent for the pur-
the nitrate, and the methyl violet may be	pose.
omitted.	I.
VII. See also under heading "Phosphorus	Wheat flourav.oz. 4
Pastes."	Sugar, powderav.oz. 8
Razor Pastes.	Borax, powderav.oz. 2 Unslaked limeav.oz. 2
I.	Keep dry.
Razor paste can be easily made by taking	This should be strewed about on paper,
emery flour and shaking up with water and	taking care that no liquids are left uncovered.
allowing to stand a moment to allow the	• •
coarse particles to subside; then pour off the	II. Boraxav.oz. 12
remainder into a paper filter and allow to	Starchav.oz. 3
drain and dry. When dry mix with enough	Cacaoav.oz. 11/
petrolatum or simple ointment to make a	All should be in fine powder and be well
paste.	mixed.
II.	111.
Emery flour,	Plaster of parisav.oz. 4
Jeweler's rouge,	Oatmealav.oz. 8
Spermaceti ointment, of each, equal parts	Sugar av.oz. 2
III.	All should be in fine powder and should
Emery flour	be well mixed.
Spermaceti ointment	IV.
IV.	Algelica root, powderav.oz. 15
	Oil of eucalyptusfl.dr. 3
Jeweler's rouge, Black lead,	
Suctof each, equal parts	Mix well.
	v.
V.	V. Tartar emeticgr. 140
	v.
V. Levigated oxide of tinav.oz. 4 Oxalic acid, powderav.oz. 1	V. Tartar emeticgr. 140
Levigated oxide of tinav.oz. 4 Oxalic acid, powderav.oz. 1 Gum arabic, powdergr. 80	V. Tartar emetic
Levigated oxide of tinav.oz. 4 Oxalic acid, powderav.oz. 1	V. Tartar emeticgr. 140 Insect powderav.oz. 16 VI.

# 

VIII

V 111.			
Insect	powder	 av.o	z. 81/2
Quillaj	a, powder.	 av.o	z. 11/2
X.			
Borax.		 .av.oz.	13
Sugar		 .av.oz.	4
Cacao		 gr.	300

Reduce all to powder and mix well.

#### X.

Borax			av.oz. 4
Paris green			av.oz. 4
Sugar			avoz. 2
Reduce all	to nowde	r and mix w	Iles

#### XI.

I.

	flour		
Plaster	of paris, calcin	ed	. ,av,oz. 8
			-D.

Borax.	.,						 		 		av	.0	Ζ,	8
Flour .	.,				 					 	a	1.0	Z.	8

XIII. A very common roach powder is a mixture of insect powder with borax. Thymol in alcoholic solution may also be added to insect powder.

Another mixture often used is a combination of insect powder and paris green.

#### Rust Stains, Removal of.

Tartaric acid	av.oz.	1
	av.oz.	
Water, enough	to makefl.oz.	10

Mix, dissolve and filter.

II. A mixture of 2 parts of powdered cream of tartar with 1 part of powdered oxalic acid will remove stains from cotton and linen. This mixture is sometimes sold under the name of salts of lemon. The poisonous character of the acid must not be overlooked, for accidents have occurred from its careless use.

III. Rust Stains on White Goods.—Soak the stains in a solution of tin chloride, and rinse immediately with much water. The tin

salt is much more reliable in removing iron rust, and quicker in its action than oxalic acid, unless the stains are soaked in a solution of the latter, contained in a tin spoon, when the stains disappear in a short time.

#### Sealing Waxes.

These consist of resinous substances in combination with coloring agents, the mixture frequently being cheapened by the addition of mineral substances. In preparing these, the less fusible resins, such as rosin and shellac should be melted, then the turpentine. Venice turpentine or similar more fusible agent should be added, and with this mixture should be incorporated the remaining ingredients. The powdery substances should be added in the very finely divided form, and should first be added; if there are several powders, they should be well mixed before adding to the liquefied resins. When the ingredients have been mixed, the heating should be continued for a few moments to permit the escape of air bubbles which have been introduced during mixing of the ingredients.

The mixture may be cast into sticks, if desired, by pouring into suitable molds which have previously been moistened.

To cool off to the consistency required for molding, pour off about one-sixth of the mixture on a piece of wetted parchment paper, and as soon as this mass has hardened it should be returned to the vessel and stirred until the cooled portion is dissolved; the mixture may be poured into the molds.

#### Sealing Wax, Black.

Shellacav.oz. 12
Venice turpentineav.oz. 8
Resin
Lampblack sufficient to color
Ш,
Gum turpentineav.oz. 11/2
Resinav.oz. 6
Stearingr. 260
Lampblack
Heavy spar(barium sulphate), av.oz. 12
-D.
III.
Resin
Venice turpentine av.or. 11/2
Chalk
Lampblack av or 1

—D.

Melt the resin, add the venice turpentine and incorporate with the chalk and lampblack which have previously been well mixed.

# Sealing Wax, Blue.

•	
Venice turpentineav.oz.	3
White shellacav.oz.	7
<b>Re</b> sin <b>av</b> .oz.	
Prussian blueav.oz.	1
Calcined magnesiagr.	90
II.	
Gum turpentineav.oz.	4
Resin, whiteav.oz.	
Ultramarine blue	
Heavy spar (barium sulphate)av.oz.	21/2
-	D.
111.	
Gum turpentineav.oz.	4
Resin, white av.oz.	
Ultramarine blue	
Zinc oxideav.oz.	
Heavy spar (barium sulphate)av.oz.	

# Sealing Wax, Green.

I.

T

Shellacav.oz.	10
Venice turpentineav.oz.	5
Resinav.oz.	
Magnesiaav.oz.	1/2
King's yellow (yellow litharge). av. oz.	11/2
Mountain (Sander's) bluegr.	260
Oil of turpentinefl.dr.	3

Melt the shellac and resin, add the venice turpentine, and then incorporate the colors, which have previously been mixed to a paste with the oil.

#### II.

Resinav.oz.	
Venice turpentineav.oz.	11/2
Chalkav.oz.	21/2
Chrome greenav.oz.	1

Melt the resin, add the turpentine, and then incorporate the chalk and chrome green which have previously been well mixed.

# III.

Shellacav.oz.	
Masticav.oz.	
Green turpentineav.oz.	11/2
Verdigrisav.oz.	2

IV. Paris green may also be employed as the coloring agent.

# Sealing Wax, Red.

The coloring agents used may be vermilion or red lead, or even venetian red.

I.	
Shellac, bleachedav.oz.	8
Venice turpentineav.oz.	5
Chinese vermiliontwo paper	:5
11.	•
Shellac	0
Venice turpentineav.oz. Vermilionav.oz.	å 4
Bleached shellac should be used in mak	-
	ing
this wax. III.	
Resin	2
Yellow waxav.oz.	2
Burgundy pitchav.oz.	2
Melt together and color with red le	ead.
venetian red, or vermilion.	
IV.	
Shellac	8
Venice turpentineav.oz.	8
American vermilionav.oz.	2
Balsam of peruav.oz.	1/2
V	•
Venice turpentineav.oz.	8
Shellac	1½
	31/2
Balsam of peruav.oz.	1/2
VI.	
	4 1
Shellacav.oz.	7
	4 <b>)</b>
Magnesium carbonategr. 9	
Melt the shellac and turpentine, add	
cinnabar, and finally, the magnesia in	
powder, triturated with a little oil of	
pentine. Cheaper grades may be made	by
adding resin and reducing the quantity	r of
cinnabar.	
VII.	
Orange shellac	8
Venice turpentineav.oz. Vermilionav.oz.	4
	ð
VIII.	_
	2
	6 1
Vermilionav.oz.	×
Heavy spar (barium sulphate). av. oz. 1	2
—D	
Sealing Wax, Violet.	
Gum turpentineav.oz.	2
Resin, whiteav.oz.	1%
Carmine	2 2
Ultramarine blue	
	0
—E	).

# Sealing Wax, White.

I.	
Bleached shellacav.oz.	
Venice turpentineav.oz.	- 314
Plaster of parisav.oz.	2
Magnesiagr.	120
Bismuth: subnitrateav.oz	3
Lead Carbonateav.oz.	4 1/2
II.	

Gum turpentine	.av.oz. 2
Resin, white	.av.oz. 71/2
Zinc white	.av.oz. 2
Heavy spar (barium sulphate).	av.oz. 81/2
	—D.

#### Sealing Wax, Yellow.

1	r	
4	L	•

Shellac, bleachedav.oz.	8
Resinav.oz.	2%
Venice turpentineav.oz.	
King's yellow (sulphide of ar-	
senic) <b>a</b> v.oz.	11/2
II.	
Shellacav.oz.	71/2
Venice turpentineav.oz.	61/2
Resin	31
Plaster of parisav.oz.	1
Magnesia	ю
Chrome yellowav.oz.	11/2

III.

Gum turpentineav.oz. Resin, whiteav.oz.	
Chrome yellow av.oz. Heavy spar (barium sulphate)av.oz.	2
	_

#### Sewing Machine Oil.

I. Paraffin oil, best Olive oil, best	
II.	
Paraffin oil	fl.oz. 14
Petrolatum	av.oz. 2

Melt the petrolatum, and add the oil; cool thoroughly, and allow the cloudiness which takes place to clear off by depositing. Decant, and use the clear supernatant oil.

# Shoe Dressing, Kid.

I.

Ceresinav.oz.	4
Oil of turpentineav.oz.	4
Castor oilav.oz.	4
Linseed oil, rawav.oz.	20
Pine tarav.oz.	1

Dissolve the ceresin and tar in the oil of turpentine; then add the heavy oils while stirring. Perfume with oil of mirbane.

II.

Shellacav. >z.	4
Aqua ammoniafl.oz.	3
Waterfl.oz. 10	15
Black aniline sufficien	t

Heat the ingredients slowly together (except the aniline) until the whole is near boiling and the shellac dissolves; (It may be necessary to add a little more ammonia during the boiling.) then add the aniline, and water enough to make the whole measure 16 fluidounces.

# Shoe Dressing, Ladies' or Liquid.

These preparations are usually resinous solutions colored black, and intended for application to shoes by means of sponge. They dry quickly, and give a polish without friction with a brush.

Whenever bone or ivory black is directed in a formula, the purified article should be preferred, as it gives a dead-black color; whereas the unpurified may give but a brownish or grayish black.

Shoe blackings are mentioned under heading "Blacking for Shoes."

Ι.	
Caoutchouc	av.oz. 1
Petroleum	av.oz. 1
Carbon disulphide	fl.oz. 1
Shellac	av.oz. 4
Lampblack	av. oz. 2
Oil of lavender	fl.dr. 1
Alcohol	fl.oz. 20

Upon the caoutchouc, contained in a bottle, pour the carbon disulphide; cork well and let it stand a few days, or until the caoutchouc has become thoroughly gelatinized or partly dissolved; then add the petroleum, lavender oi! and alcohol; next the shellac in fine powder, and heat it to about 50 degs. C., taking care that as little as possible is lost by evaporation. When the substances are all dissolved, and the liquid is tolerably clear, add the lampblack, and fill at once into small bottles.

II.

Extract of logwoodgr.	5
Gallic acidgr.	10
Boraxgr.	10
Aniline blackgr.	30
Ammonia waterm.	20
Water, hotfl.oz.	1
Aqueous shellac solutiongal.	1
Mix and dissolve.	

The aqueous shellac solution should be prepared as follows:

Water .		fl.oz. 5
Shellac,	powder	gr. 300

The shellac should be gradually added to **the** hot borax solution.—H.

#### III.

Indigogr.	120
Tragacanthgr.	240
Glueav.oz.	4
Logwoodav.oz.	8
Glycerinfl.oz.	
Waterfl.oz.	
Diluted acetic acidfl.oz.	

Boil together and strain.

#### IV.

Aniline blackgr.	400
Camphorav.oz.	11/2
Shellacav.oz.	21
Wood alcoholfl.oz.	64

The wood alcohol is used only because it is cheaper than grain alcohol; the latter may be employed if desired.

#### V.

Shellacav.oz.	2
Ammonia waterfl.oz.	1
Water	6
Aniline black sufficient to col	or

Boil all the ingredients together, except the aniline, until the shellac is dissolved; then add the aniline, and sufficient water to make the liquid up to the measure of 16 fluidounces.

#### VI.

Ivory black, very fineav.oz.	32
Molassesav.oz.	24
Sperm oilfl.oz.	4
Gum arabicav.oz.	1
Diluted acetic acidfl.oz.	8

Mix the first three ingredients, then add the gum dissolved in the acid; mix again, set aside for 24 hours, and add 3 or 4 pints of vinegar or sour beer.

VII.

lvory black av.oz. 8
Molasses
Sweet oilav.oz. 1
Hydrochloric acid, commercial. av.oz. 4
Sulphuric acid, commercialav.oz. 2
Water sufficient

Mix the ivory black with the molasses and oil, add the hydrochloric and sulphuri cacids, first mixing the latter with 3 or 4 fluidounces of water, and adding while hot. Let

stand until all effervescence ceases, stirring occasionally, and finally, thin to the desired consistence with stale beer.

VIII.

Castile soap, whiteav.oz.	1
Sandarac	
Masticav.oz.	1/2
Venice turpentineav.oz.	3
Shellacav.oz.	31
Aniline black, Eav.oz.	
Glycerinfl.oz.	
Waterfl.oz.	
Alcoholfl.oz.	24

Dissolve the soap in the water, mixed with 7 fluidounces of alcohol; macerate in a warm place, with frequent agitation, subsequently filtering through cotton. The mastic, sandarac and venice turpentine should be dissolved in 9 fluidounces of alcohol, and the solution also filtered through cotton. Then dissolve the shellac and aniline in the remainder of the alcohol. Now mix the three solutions and add the glycerin.

The mixture should be dispensed in widemouth bottles, the corks being supplied with a wire which has a sponge attached to it. IX.

Bleached shellac	 	 	 	.av.oz. 4
Borax				
Sugar				
Glycerin	 	 	 	.av.oz. 2
Nígrosin	 	 	 	.av.oz. 1
Water	 	 	 !	sufficient

Mix the shellac, borax, and 14 fluidounces of water, with constant stirring, until the shellac is dissolved; then add the sugar, glycerin and nigrosin; stir until the latter is dissolved, and add enough water to make 36 fluidounces. -D.

# x.

Molassesav.oz.	4
Ivory blackav.oz.	4
Diluted acetic acidfl.oz.	
Waterfl.oz.	
Acacia, powdergr.	120
Sulphuric acid, commercial, fl.dr.	

Mix all the ingredients, except the sulphuric acid; then add the latter gradually, with constant stirring.

# XI.

Yellow waxav.oz.	2
Fish oilfl.oz.	2
Benzinfl.oz.	15
Tincture of green soapfl.oz.	1
Lampblack sufficient to co	lor
-	D.

# hoe Grease.

Liouid petrolatum, yellowfl.oz.	14
Olive oil, commonfl.oz.	1
Ceresinav.oz.	5
Alkanningr.	10
Oil of mirbanedrops	6
Oil of citronelladrops	3

Melt the ceresin, add the petrolatum, oil and alkannin; allow to cool, and incorporate the oils of mirbane and citronella.

#### II.

Yellow waxav.oz.	1
Turpentineav.oz.	1
Castor oil	1
Linseed oilfl.oz.	10
Pine targr.	120

Clean the leather; let dry, and rub the grease well in before a fire.

#### III.

Resin	2
Yellow waxav.oz.	3
Linseed oilfl.oz.	12
Neatsfoot oilfl.oz.	
Oil of turpentinefl.oz.	4
This has been known as Norfolk fluid.	

#### Shoe Polish, Patent Leather.

I.

Yellow wax, or ceresinav.oz.	3
Spermacetiav.oz.	1
Oil of turpentinefl.oz.	11
Asphalt varnishav.oz.	1
Borax, powdergr.	80
Frankfort blackav.oz.	1
Prussian bluegr.	150
Oil of mirbanefl.dr.	11

Melt the wax, add the borax, and stir until a kind of jellv has been formed. In another pan melt the spermaceti; add the varnish, previously mixed with the turpentine; stir well and add to the wax; lastly, add the colors, mix well, and incorporate the oil of mirbane.

#### II.

Molassesav.oz.	4
Gum arabicav.oz.	1/2
Ivory blackav.oz.	16
Mix well, and simmer together for ha	lf an

# hour.

# Shoe Varnish, Patent Leather.

I.	
Shellacav.oz.	2
Gum turpentineav.oz.	34
Sandaracgr.	144
Lampblack gr.	72
Oil of turpentinefl.dr.	6
fl.oz.	

# II.

India rubber	
Shellac	av.oz. 8
Camphor	av.oz 1
Nigrosin	av.oz. 1
Carbon disulphide	fl.oz. 2
Wood alcohol	fl.oz. 22
Dissolve the rubber in the	carbon disul-

phide, and add the other ingredients, previously dissolved in the alcohol.

# Shoe Dressing, Tan or Russet.

Oil of turpentine	. fl. oz.	10
Yellow wax	av.oz.	5
Soap (ordinary bar)	av.oz.	1/2
Boiling water	. fl. oz.	10

Dissolve the wax in the turpentine by the aid of the water bath, and the soap in the hot \_\_\_\_\_t water; mix in a hot mortar, and agitate until cold.

II.

I.

Palm oilav.oz.	3
Common soapav.oz.	6
Oleic acidfl.oz.	
Glycerinfl.oz.	1
Tannic acidgr.	60

Melt the soap and palm oil together with a very gentle heat. When the soap is dissolved add the oleic acid. Dissolve the tannic in the glycerin; add to the hot mixture\_ and stir until cold.

III. Petrolatumav.oz. Yellow waxav.oz.	
IV.	
Yellow waxav.oz.	2
Fish oilav.oz.	3
Benzinfl.oz.	15
Tincture of green soapfl.oz.	1
Yellow ocherav.oz.	4
_	D.
V.	

Yellow wax.....av.oz. • Oil of turpentine.....fl.oz. Soap shavings.....gr. 280 Fish oil.....fl.oz. N Borax, fine powder .....gr. 275 Glycerin.....fl.oz. 9 Yellow ocher.....av.oz. 3

Melt the wax, and add the oil of turpentine. With the fish oil incorporate the borax previously dissolved in the glycerin, add the yel low ocher, and then the wax solution; no add the soap shavings; heat the whole on water bath until dissolved, and stir ur cold.

ï

Ι.

#### VI.

Soft or green soap av.oz. 2
Linseed oil, rawfl.oz. 3
Annatto solution (in oil)fl.oz. 8
Yellow waxav.oz. 3
Gum turpentine av.oz. 8
Waterfl.oz. 8

Dissolve the soap in the water and add the annatto: melt the wax in the oil and turpentine, and gradually stir in the soap solution, stirring until cold.

#### VII

Yellow waxav.	oz. 5
Potassium carbonate	gr. 264
Resin soap (common yellow bar)	gr. 175
Water fl.	oz. 10
Oil of turpentinefl.	oz. 5

Mix the first four ingredients, heat until well mixed, and when cooled to 80 degs. C. the oil may be added; now incorporate enough of an oil-soluble yellow aniline to produce the desired shade.

# Show Globe Colors.

Colored liquids for show globes, show globe colors as they are termed, are frequently made of coal tar dyes, and very handsome colors may be produced in this way, but these, as a rule, lack permanency. However, these colors are inexpensive; so very little of the dye being required that they may be " freshened " occasionally, or they may be entirely renewed. Those who do not care to use coal tar dyes may employ the formulas mentioned below. It should be understood, however, that no show bottle colors are absolutely permanent, because they are exposed to one of the most powerful of all chemical agents, viz., light. From time to time they should be filtered or else renewed, and the bottle should be thoroughly cleansed.

Show bottle colors are liable to be subjected to considerable cold in winter time and to be frozen. This may be prevented by replacing 20 or 25 per cent of the water with alcohol or glycerin. Such replacement cannot always be made, owing to possible chemical change-for example, in purple made with potassium permanganate.

The colors most commonly employed are red, green, blue, and yellow. The formulas given below will yield these colors in several in the water and add the hydrochloric acid; different shades. These shades may in each filter.

instance be deepened or made lighter by decreasing or increasing the amount of water.

#### Show Globe Color, Amber.

Dragon's bloodgr.	45
Sulphuric acidfl.dr.	8
Distilled watergal.	

Powder the dragon's blood and macerate in the acid for 20 or 30 minutes, then add the distilled water and filter.

#### Show Globe Colors, Blue.

Copper sulphateav.oz.	16
Sulphuric acidfl.oz.	1
Watergal.	2
I	
Conner sulphate or. 2	40

Copper	suipnategr. 4	40
Ammo	nia water sufficient, or fl. oz. 1 to	2
	gal.	2
mater		-

Dissolve the copper salt in water, add ammonia water until the precipitate first formed is redissolved, and add the remainder of the water.

III. Dissolve prussian blue in water by the aid of oxalic acid, or dissolve soluble blue or indigo sulphate in water.

IV	
Copper sulphateav.oz. 8	
Alumav.oz. 8	
Sulphuric acidfl.oz. 8	
Distilled watergal. 2	

Dissolve the alum and blue vitriol in the water, cautiously add the sulphuric acid, and filter.

# Show Globe Colors, Crimson.

Solution of iron chloridefl.dr. 1	0
Water of ammoniafl.oz.	
Acetic acidfl.oz.	
Alcoholfl.oz.	
Distilled watergal.	2

Add the solution of iron chloride to the water; then add the alcohol, acetic acid and water of ammonia, and filter.

Iodineav	1.0Z. 1/2
Potassium iodidefi	1.0z. 1/2
Hydrochloric acidff	l.oz. 9
Distilled water	gal. 2

Dissolve the iodine and potassium iodide

•

Show Globe Colors, Green.	tilled water, add the water of ammonia and
	enough of a solution of potassium bichromate
I. Copper sulphateav.oz. 12	to give the desired color, and filter.
Hydrochloric acidfl.oz. 10	IX.
Distilled watergal. 2	
Dissolve the copper sulphate in the distilled	Fluorescingr. 2 Ammonia waterfl.dr. 2
water, add the hydrochloric acid and filter.	Water, distilledgal. 2
11.	This makes a fluorescent grass green liquid.
Verdigris av.oz. 12	X.
Sulphuric acidsufficient	Copper sulphateav.oz. 9
Distilled watergal. 1	Hydrochloric acid
Mix the verdigris with enough acid to dis-	Subcarbonate of ironav.oz. 1
solve; let stand a few minutes, add to the	Distilled watergal. 2
distilled water and filter.	Dissolve the copper sulphate in the water;
III.	dissolve the iron in the hydrochloric acid;
Nickel	mix the two solutions, and filter.
Hydrochloric acidfl.oz. 8	XI.
Nitrous acidfl.oz. 8 Distilled water, enough to makegal 2	Copper sulphateav.oz. 8
	Sodium chlorideav.oz. 16 Hydrochloric acidfl.oz. 8
Dissolve the nickel in the hydrochloric	Watergal. 2
acid, add the water, then the nitrous acid.	Mix, dissolve and filter.
IV.	
Copper sulphateav.oz. 9 Ammonium chlorideav.oz. 9	XII. Determine highermote or 190
Water, enough to makegal. 2	Potassium bichromategr. 120 Copper ammonio-sulphategr. 240
First dissolve the copper salt in the water,	Watergal. 2
then add the ammonium chloride; dissolve	Mix, dissolve and filter.
and filter.	Instead of the copper salt may be used a
V.	solution of copper treated with ammonia
Copper acetateav.oz. 1	water until the precipitate first formed is
Acetic acidfl.oz. 9	redissolved.
Water, enough to makegal. 2	Show Globe Colors Orenado
Add the acetic acid to the copper acetate,	Show Globe Colors, Orange.
and triturate with the water till dissolved.	I. Dissolve annatto in liquor potassa and
VI. Add an aqueous solution of picric acid	dilute alcohol, and filter.
to an aqueous solution of copper sulphate	II. Dissolve 8 av. ounces of potassium
until the desired shade is produced. A beau-	bichromate in 2 gallons of water. The shade
tiful grass green liquid will be the result.	may be varied by adding nitric, sulphuric, or
VII.	hydrochloric acid, and filter. Instead of
Nickelav.oz. 1/2	using any of these acids, 120 grains of
Nitric acid	chromic acid may be dissolved in the water.
Distilled watergal. 2 Potassium bichromatesufficient	III. Some of the darker of the yellow show
_	globe colors may also be employed if an
Dissolve the nickel in the nitric acid, add	orange shade is desired.
the water and enough of solution of potas-	Show Globe Colors, Pink.
sium bichromate to give the desired color, and filter.	1
	Sodium salicylategr. 16
VIII.	Tincture of iron chloride, Hydrochloric acidof each, sufficient
Copper sulphateav.oz. 1 Water of ammoniafl.oz. 10	Watergal. 2
Potassium bichromatesufficient	Dissolve the sodium salicylate in the water
Distilled water	and add (cautiously) tincture of iron in single
Dissolve the copper sulphate in the dis-	
the second	

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Hydrochloric acid may be used carefully (in drops) to render the tint paler. Should too much acid have been added, restore the tint by the addition of ammonia.

11.	
Cobalt oxide	120
Nitric acidfl.oz.	12
Watergal.	2

Dissolve the cobalt oxide in the acid, then add the water.

## III.

Cobalt oxideav.oz.	2
Nitric acidfl.oz.	1
Hydrochloric acidfl.oz.	1
Ammonia waterfl.oz.	18
Sulphuric acidfl.oz.	1
Watergal.	2

Dissolve the cobalt oxide in the nitric and hydrochloric acids mixed, then add the remaining ingredients previously mixed; set aside for several weeks, and filter.

#### Show Globe Colors, Purple.

#### 1.

Verdigris	gr.	60
Water of	ammoniafl.oz.	20
Distilled	watergal.	2

Mix the water and the ammonia, add the verdigris, and, when dissolved, filter.

#### II.

Salicylic acid	gr. 5
Alcohol.	fl. oz. 1
Tincture of iron chloride	fl.dr. 1
Distilled water	gal. 2

Dissolve the salicylic acid in the alcohol, add the tincture of iron, then add distilled water.

# ш.

Lead acetate	
Cochineal, powdergr.	20
Distilled water	1

Macerate for several days; filter, and dilute to the desired shade.

#### IV.

	n permanganategr. 40 watergal.	
Mr	Receive	

Mix and dissolve.

## Show Globe Colors, Purple (Brilliant.)

Copper	sulphategr. 120	1
French	gelatingr. 60	
Liquor	potassa	
Water.		j

Dissolve the copper salt in 2 fluidounces of water, and the gelatin in the same amount

of boiling water; mix the two solutions, add the liquor potassa, shake the mixture, let stand 10 hours, decant the clear liquid, and dilute as desired with water.

# Show Globe Colors, Red.

I. Dissolve carmine in water of ammonia or liquor potassa, and reduce with water to the desired tint.

II. Take water in which red cabbage has been boiled; add sulphuric acid to bring out the color, dilute with water to the desired tint, and filter.

## III.

Cochinealgr.	100
Potassium bitartrategr.	75
Sulphuric acidfl.dr.	6
Distilled watergal.	2

Boil the cochineal and potassium bitartrate in water until exhausted; allow to cool, add . the sulphuric, acid and filter.

Instead of this, the solution of cochineal (cochineal coloring) of the National Formulary may be used.

#### IV.

Cobalt carbonate.....gr. 60 Hydrochloric acid, Ammonium carbonate.of each, sufficient Distilled water, enough to make.gal. 2

Dissolve the cobalt salt in the acid and some water, add enough ammonium carbonate so that the precipitate first formed is redissolved; filter, and dilute as desired.

V. Add to the amount of water necessary to fill the show bottle, compound tincture of iodine (drop by drop) until the desired tint is obtained; then add a few scales of metallic iodine. The iodine is added in excess to prevent bleaching, which would occur very soon were it omitted.

#### 

Dissolve the sulphocyanide in water, add the tincture, and filter.

VII.		
Solution of iron chloride	. fl. oz.	1
Aqua ammonia	. fl. oz.	3
Acetic acid	. fl. oz.	3
Alcohol		
Water	gal.	2

The water should first be clarified with	
alum (6 grains to the gallon) and filtered; the	Potassium chromateav.oz. 8 Watergal. 2
other ingredients mixed, and the water added, and the whole again filtered.	Dissolve and filter.
VIII.	VI.
Alum	New York chrome yellowav.oz. 1 Hydrochloric acidfl.oz. 1 Nitric acidfl.oz. 2
Dissolve the alum and potassium iodide in the distilled water, and filter.	Watergal. 2 Mix; dissolve and filter.
IX.	
Cudbearav.oz. 1	Silver Plating.
Nitric acidfl.oz. 8	See "Plating with Gold, Silver," etc.
Water	Silver, Polishing.
Show Globe Color, Violet.	See "Polishing Powders."
I.	The following may also be employed:
Cudbear	Sodium thiosulphate (hyposul- phite) av.oz. 4 Water fl.oz. 12
Mix; macerate for 24 hours, and filter.	Mix; dissolve and filter.
II.	In using, apply this liquid to the oxidized
Cobalt nitrateav.oz. 4 Ammonium carbonategal. 2 Copper ammonio-sulphate	silver, rub dry, and polish with one of the polishing powders adapted to silver.—D.
of each, sufficient	The following is commonly employed:
Watergal. 2 Dissolve the cobalt nitrate in the water	Prepared chalk or whitingav.oz. 2 Ammonia waterfl.oz. 2 Water, enough to makefl.oz. 8
saturated with ammonium carbonate, and	
add of the copper ammonio-sulphate sufficient	Soap, Ox-Gall.
to produce the desired tint. Instead of the copper salt may be used a	I. Extract of quillajaav.oz. 1
solution of copper sulphate to which is added ammonia water until the precipitate first	Borax, powder
formed is redissolved.	Triturate together the borax, extract and
Show Globe Colors, Yellow.	ox-gall, dissolving as much of the borax as
I. Potassium bichromateav.oz. 10	possible. Then add the soap, beat the whole
Nitric acidfl.oz. 20	to a uniform consistence, and cut into cakes
Distilled watergal. 2	of the desired size.
Dissolve the potassium bichromate in the	If no extract of quillaja be at hand, soap bark (in shreds) may be exhausted by boiling
water, and add the nitric acid; filter.	with water, straining, and evaporating the
II. Potassium bichromateav.oz. 6	liquid on a water bath. One hundred parts
Sodium carbonate or bicarbonate.av.oz. 4 Distilled water	of bark yield about 20 of extractD. II.
Dissolve the potassium bichtomate in the	Oleic acid 1 part Borax 2 parts
water, add the sodium salt (dissolved); filter. III. Add tincture of curcuma to alcohol till	Borax
the required color is obtained. IV.	Triturate the borax with the ox-gail; then
Picric acidav.oz. 1/2 Water	thoroughly incorporate with it the soap, pre- viously reduced to powder, and lastly incor-
Dissolve and filter.	porate the oleic acid.

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# ΙII.

Ox-gall, freshfl.oz. 1	0
Stearin soapav.oz.	9
Borax, powderav.oz.	
Alcohol	

Mix the first three ingredients at a slightly elevated temperature, then add sufficient alcohol (from 1 to 2 fluidounces) to form a suitable mass; transfer the whole to a flatbottomed vessel, and when cold cut into pieces.—D.

#### Soap, Shaving.

Mutton suetav.oz.	10
Cocoanut oilav.oz.	5
Caustic sodaav.oz.	2
Caustic potassagr.	170
Water	71/2
Oil of carawaydrops	25
Oil of bergamotdrops	30
Oil of lavenderdrops	20
Oil of thyme, whitedrops	12
Oil of mirbanedrop	1

Melt the tallow and cocoanut oil; allow to cool to 50 degs. C., then add the caustic potassa and soda dissolved in the water, and warm the whole gently during one-half hour or so, stirring occasionally, until a uniform soapy mass is produced; to the latter add the volatile oils.—D.

# Soap, Shaving, Antiseptic.

To the previous soapy mixture, add  $\frac{3}{4}$  av. ounce of salol, first warming the soap to about 50 or 60 degs. C., and stir until the salol is dissolved.—D.

#### Soap, Soft. (Green Soap.)

For pharmaceutical use:

Olive oil	25
Caustic potassaav.oz.	91⁄2
Waterfl.oz.	75

Dissolve 8 av.ounces of caustic potash in 50 fluidounces of water, and add 12½ fluidounces of this solution to the oil. Heat the mixture over a moderate fire, stirring until sufficiently thickened. Gradually add the remaining solution of potassa, and continue the heat, stirring occasionally until the mixture assumes a transparent, gelatinous form; dissolve the remaining 1½ av.ounces of potassa in 25 fluidounces of water; add this solution to the soap mixture, and evaporate the whole to proper consistency.

# Soap, Stearin.

Stearic acidav.oz	
Sodium carbonate, crystalgr	. 560
Waterfl.oz	
Alcoholfl.dr	. 2
Sodium chloridefl.dr	. 4

Dissolve 540 grains of the crystallized sodium carbonate in 6 fluidounces of water; transfer this solution to a water bath and gradually add the stearic acid with constant agitation; then add the alcohol; cover the vessel, and allow it to remain upon the bath for 6 hours to separate the soap; add the sodium chloride and the remainder of the sodium carbonate, dissolved in the remainder of the water; transfer the whole to a strainer, and when cold press out the remainder of the moisture.

## Soap, Whale Oil.

This may be prepared like soft soap, substituting whale oil for the olive oil.

#### Stains from Fabrics, Removing.

See also the following headings: "Ox-gall Soap," "Cleansing Creams," "Cleansing Liquids," "Benzin Jelly," "Glove Cleaner," "Rust Stains, Removal of," and "Silver Nitrate Stains."

#### Cleansing Pencils.

Form little rolls from ox-gall soap, half an inch thick and  $2\frac{1}{2}$  inches long, and cover with tinfoil. Instead of ox-gall soap, the following may be employed:

Borax, powderav.oz.	2
Common or castile soapav.oz.	14
Green soapav.oz.	4

Mix to a uniform mass, using a gentle heat if necessary.

#### Cleansing Liquid.

I.	
Spirit of ammonia	fl.dr. 12
Oil of turpentine	
Ether	.fl.dr. 12
Oil of lavender flowers	fl.dr. 1
Alcohol	. fl. oz. 27
11.	
Spirit of ammonia	.fl.dr. 6
Ether	
Benzin	fl. oz. 5
Oil of lavender flowers	fl.dr. 1
Tincture of quillaja	.fl.oz. 7
Alcohol	

III.		
Oil of turpentine	fl_oz.	3
Benzin	fl.oz.	3
Ammonia water	fl.oz.	3
Alcohol	fl.oz.	23
IV.		
<b>n</b> .	~	00

Benzin fl.oz.	32
Oil of turpentinedrops	8
Oil of mirbanedrops	8

The last, sometimes called "Brunnersches fleckwasser," (by which term benzin only is also signified) is particularly suited for cleansing gloves.

Before applying any of the cleansers recommended to colored goods an experiment should be made, either with a sample of the goods or on some portion which will not be seen, to determine whether directions given for treating the spot will not affect the color.

The Spot is of Unknown Origin.

White Goods.—Dissolve some soap in lukewarm water and add two dessertspoonfuls of cleansing liquid (as above) and dampen the spot with a sponge soaked in this solution; finally wash out in clear water.

Colored Woolens.—Dissolve a cleansing pencil (as above) in a bottle of the solution and wash out the spot in the liquid; then rinse in clear water, and dry in the air.

Silk, Satin and Similar Delicate Fabrics.— Add to the above solution the yolks of two eggs, and spread this on the spot. Then wash in lukewarm water; rinse in cold water, and dry by a gentle heat. To press out use an iron that is warm only—not hot.

The Spot is of Dust.

White Goods.—Beat and brush.

Colored Wool, Silk, Satin, etc.—Old spots that are dried in should be painted first with yolk of egg, then with cleansing solution and allowed to dry. Scratch this off and wipe with a wet linen rag.

Milk, Soup, or Small Grease Spots Generally.

White Goods.—Wash with the warm solution of a ''cleansing pencil'' in water.

Colored Cotton or Woolen Goods.—Dampen with cleansing solution; remove the excess of the solution by means of blotting paper, and wash with a solution of a "cleansing pencil."

Silk, Satin, etc.-Dampen by means of a

sponge soaked in cleansing liquid I., removing any excess by means of blotting paper.

Butter, Grease, Oil, Paints, Varnish, etc.

White or Colored Woolens or Cotton Goods. —Moisten several times with cleansing liquid I., lay a piece of blotting paper over the spot and press this with a hot iron. Then wash the whole of the fabric in hot soap suds.

Silk, Satin and Delicate Fabrics.—Rub up some "white bole" or talcum; thin dough with cleansing solution II., and spread over the spot. When thoroughly dry brush off and wipe with dry bread crumbs.

When the Spots are Old.--First moisten with chloroform and then proceed as above.

The Spot is from Stearin, Wax, etc.

First remove as much as possible with a knife; then lay a damp towel under the spot and put several thicknesses of blotting paper over it and press out with a hot iron. If any stain remains after this, treat as directed under butter, grease, etc.

Resin, Tar, Axle Grease, etc.

White Goods.—Wet with good'oil of turpentine, wring out, cover with blotting paper, and go over with a hot iron. Then wash in warm soap suds.

Colored Cotton or Woolen Goods.—Moisten the spot, apply butter, soap thoroughly, allow to stand for a few minutes, and then wash with oil of turpentine and hot water, alternately. If this does not help, spread over the spot the yolk of an egg previously mixed with oil of turpentine; cover with blotting paper and press with a hot iron Then scratch off the residue and wash thoroughly. As a final resort, wash out in water slightly acidulated with hydrochloric acid.

Silk, Satin, etc.—Drench with chloroform, and, when this has evaporated, apply "white bole or talcum;" cover with blotting paper, and press with hot iron. If this does not help, mix some yolk of egg with chloroform and proceed as above, removing the residue by wiping off with bread crumbs.

Vinegar, Acid, Wines, Fruit, etc.

White Goods.—Wash out with clear water to which a little "cleansing liquid" II. has been added.

Colored Goods, Whether of Cotton, Wool

or Silk.—Moisten with cleansing liquid, allow to evaporate, and then rinse in clear water.

#### Acids.

Fresh spots may be removed by putting on a drop of cleansing liquid; old spots cannot be remedied.

Colored Fruit Stains from Peaches, Red Wine, Cherries, Strawberries, etc.

White Goods.—Dip in javelle water or solution of chlorinated soda, and immediately that the stain has disappeared wash thoroughly in clear water.

Colored Cotton or Woolen Goods.—Wash with hot soap suds, to which a smaller or larger quantity of javelle water, or solution of chlorinated soda, has been added (as the fabric is more or less delicate); rinse in water to which a little cleansing liquid has been added; finally, wash in a large quantity of clear water.

Silk, Satin, etc.—Follow directions as above, save to use very dilute solutions.

Grass Stains.

White Goods.—Wash out with boiling water.

Colored Goods, Whether of Cotton, Wool or Silk.—Moisten the spot with a very dilute solution of tin chloride, and then wash thoroughly in a plentiful supply of clear water.

Stains from Tannin, Green Nuts, etc.

Treat with very dilute javelle water, or . solution of chlorinated soda.

Coffee or Chocolate Stains.

Cover the spot with yolk of egg diluted with cleansing liquid; wash out in warm water, and iron (while still moist) on the wrong side of the cloth.

Aniline Ink Stains.

White Goods.—Wash with alcohol to which a little acetic acid has been added, and then bleach with javelle water or solution of chlorinated soda.

Colored Goods, Whether Cotton, Wool or Silk.—If the color admits of it, follow the directions for white goods. If the dye is too delicate for this wash out with strong acohol alone, as nothing else will prove of benefit.

See also " Ink Erasives."

# Stains for Wood.

By wood stains are understood solutions of dyes, etc., used for coloring wood. They are fixed on the wood either direct or through the medium of some mordant. In many cases the color is developed in the grain only after the mordant is applied, sometimes the mordant merely changes the tone of the color.

The action of the stain is influenced not only by the mordant, but also by the natural constituents of the wood—tannin, for example. Consequently different woods sometimes give different results with the same stain.

Before applying a stain, the wood should be smoothed by sandpapering. After applying the stain, the wood should be polished so as to "bring out" the grain.

# Stain, Black or Ebony.

Solution I.

Sodium chlorateav.oz.	1
Copper chlorideav.oz.	1
Waterfl.oz.	15
Solution II.	
Aniline hydrochlorateav.oz.	214
Waterfl.oz.	15

The dry wood is painted three times with the above solutions, applying them alternately; before each application the wood is well dried; finally, it is rubbed with linseed oil or a mixture of turpentine and wax, and polished. The color is not affected by acids or alkalies.

# Stain, Cherry.

Annattoav.oz.	4
Caustic potassaav.oz.	1
Waterfl.oz.	<b>48</b>

Boil until the annatto is dissolved.

II.

I.

Logwood chipsav.oz.	
Caustic potassaav.oz. Waterfl.oz.	1/2
Waterfl.oz.	16

Boil until the color is extracted, adding more water from time to time, to make up for the loss by evaporation.

The stain is to be "fixed" by washing the wood, after its application, with alum water.

# Stain, Mahogany.

Madderav.c	oz. 2
Logwood chipsav.e	Dz. 1/2
Logwood chipsav.c Waterfl.c	oz. 82

Mix; boil and stain. Apply to wood while hot and mordant with an aqueous solution of potassium carbonate, 60 grains to the pint. II.

Alkanetav.oz.	1/2
Aloes	1.
Dragon's bloodav.oz.	1
Alcoholfl.oz.	16

Reduce the drugs to coarse powder; mix with the alcohol, set the whole in a warm place for 3 or 4 days, agitating occasionally, and filter. Before applying, mordant with dilute nitric acid.

## Stain, Walnut.

Potassiur	n permanganateav.oz. waterfl.oz.	1/2
Distilled	waterfl.oz.	16

Apply twice in succession, and after an interval of five minutes wash with clear water.

A strong hot decoction of green walnut shells may also be applied, followed, when partially dry, with a concentrated solution of potassium bichromate.

# Stamping Powders.

These are employed for stamping embroid eries, etc. Powders of various colors are rendered adhesive by admixture with gum resins, such as resin, copal, damar or sandarac. The substances should be made into the most impalpable power by trituration and sifting.

The method employed for stamping is to perforate paper according to the pattern desired, then placing this upon the fabric, sprinkling or rubbing the powder into the perforations (carefully removing the pattern), placing a piece of unperforated paper on the cloth, and carefully passing a hot iron over the whole. The iron melts the resin and leaves the design imprinted on the material.

I. Mix equal parts powdered resin and a pigment—ultramarine or prussian blue for blue; zinc oxide or flake white for white; chrome yellow for yellow; burnt or raw umber, burnt or raw sienna, vandyke brown, etc., for brown; ivory black for black, etc. II.

Resin, Damar resin, Copal resin, Sandarac, Pigment.....of each, equal parts Reduce each to very fine powder, and mix well.

# Storm Glass or Baroscope Solution. (Chemical Barometer.)

1.	
Potassium nitrategr.	36
Ammonium chloridegr.	36
Camphorgr.	
Absolute alcoholfl.dr.	6
Acoholfl.dr.	6
II.	
Camphorgr.	120
	90
Ammonium chloridegr.	60
Diluted alcoholfl.oz.	
Mix and dissolve, and place in a glas	
about 12 inches long and $\mathcal{V}$ inch in diag	meter ·

about 12 inches long and  $\frac{3}{4}$  inch in diameter; the tube to be filled about three-fourths and tied over with a bladder. III.

Potassium nitrategr.	30
Ammonium chloridegr.	30
Camphorgr.	120
Alcohol fl.oz.	2

Put the mixture into a bottle 18 inches in length and  $\frac{1}{3}$  inch in diameter, and cover the mouth with a piece of perforated plaster. If the weather promises to be fine the insoluble matter will settle at the bottom of the tube, while the liquid remains pellucid; but previous to a change for rain, the compound will gradually rise, the fluid remaining transparent. Twenty-four hours before a storm or very high wind the substance will be partly on the surface of the liquid, apparently in the form of a leaf; the fluid in such cases will be very turbid and in a state resembling fermentation.

IV. This mixture is also used:

Ammonium chloride	gr.	60
Camphor	gr.	60
Potassium nitrate	gr.	60
Alcohol	.fl.oz.	21
Distilled water, hot	. fl. oz.	4
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# Stove Polish or Blacking.

#### I.

Soapav.oz.	4
Boiling waterfl.oz. 1	
Black lead	
Diack Read	

Dissolve the soap in the water, and add enough of the black lead to form a paste.

II.			
Plumbago		av.oz	.16
Water			
Gum turpentine		av. oz.	. 4
Sugar			
Knead thoroughly and	i keep i	in tin b	ozes.
Apply with a brush.			

**III.** Plumbago made into a thin paste with sodium silicate or water glass. This makes an excellent stove polish and should be brushed thoroughly.

IV. Reduce graphite to an impalpable powder by grinding in a mill with water; dry; use with water first, then dry and polish. This is the base of nearly all commercial stove polishes.

#### V.

Bone black	.av.oz. 2
Pulverized graphite	.av.oz. 2
Copperas.	
Watersufficient to form a crea	

#### Tableau Lights.

See "Colored Fires."

# Tar Stains, Removal of.

See "Stains from Fabrics, Removal of."

#### Test Papers.

In preparing test papers, only the best white filter paper or letter paper should be employed. In order to remove traces of acid, which are so often present in paper, it should be macerated for 24 hours in about a 1 per cent ammonia water; then dry by suspending on lines in a room of ordinary temperature.

In making the test paper, the prepared paper above should either be drawn through the impregnating liquid, expressing the excess by means of a glass rod, or else the mixture should be applied to one side of the paper by means of a broad, soft brush. After impregnating the paper, the latter should be dried by suspending on lines.—D.

I. Azolitmin paper:

Azolitmingr. 1	15
Sodium carbonate, puregr.	8
Distilled water	32
Phosphoric acidsufficier	nt

Dissolve the asolitmin and sodium carbonate in the water, and neutralize the solution with the acid. Pass filter paper through the solution and dry, as directed above.

This paper becomes red with acids; it will indicate 1 part of sulphuric acid in 40,000, and 1 of hydrochloric acid in 50,000.

II. Brazil wood paper:

Brazil wo	ood, raspedav.oz waterfl.oz	z. 21/2
Distilled	waterfl.oz	z. 32

Mix; macerate for 24 hours, agitating frequently; filter, and to the filtrate add enough 50,000.

ammonia water, drop by drop, until it begins to acquire a blue-red color. Prepare the paper as in the preceding.

This paper will indicate 1 part of ammonia in 80,000.

III. Congo red paper:

Congo re	d (coal	tar	dye)	gr	. 15
Alcohol .				fl.oz	. 28
Distilled	water.		<b> .</b> .	fl.oz	. 8

Dissolve the dye in a mixture of the alcohol and water, and prepare the test paper as in the preceding instance.

This paper will indicate 1 part of sulphuric acid in 2,500, and 1 part of hydrochloric acid in 3,000.

A blue congo paper may be produced by adding alkali to the above solution.

IV. Curcuma paper:

Curcuma	root, powdergr.	5
Distilled	waterfl.oz.	16
Alcohol .	suffici	ent

Macerate the drug with 4 fluidounces of alcohol for several days, agitating frequently, and filter, adding enough alcohol through the filtrate to make 4 fluidounces. To the latter add a mixture of the water and 15½ fluidounces of alcohol. With this liquid impregnate paper as in the preceding instance.

This paper will indicate 1 part of potassium hydrate in 15,000, and 1 of ammonia in 40,000.

V. Lead paper:

Lead acetate								.av.oz.	3
Distilled water		•	•			•		fl.oz.	30

Dissolve, and prepare the paper as in the preceding.

VI. Litmus paper, blue:	
Litmus, bestgr. 730	
Distilled water,	
Phosphoric acid of each, sufficient	

Macerate the litmus in 32 fluidounces of water for 12 hours; filter, and add through the filter enough water to make the filtrate measure 32 fluidounces. To the latter add phosphoric acid, drop by drop, until the liquid appears blue, with reddish cast. Then impregnate paper as in the preceding instance.

This paper will indicate 1 part of sulphuric acid in 40,000, and 1 of hydrochloric acid in 50,000.

#### VII. Litmus paper, red:

Litmus, bestgr. 6	72
Distilled waterfl.oz.	32
Phosphoric acidof each, sufficie	nt

Macerate the litmus with the distilled water for 24 hours; filter, and add enough of the acid to filtrate until the fluid is red; then set aside for 24 hours, decant the clear liquid, and filter. With this liquid impregnate paper as in the preceding instance. The second filtration is necessary to remove a brownish substance which is deposited. Hydrochloric acid may be substituted for the phosphoric acid.

This paper will indicate 1 part of potassium hydrate in 20,000, and 1 of ammonia in 60,000.

VIII. Logwood paper:

Logwood, rasped	gr. 5	85
Distilled water		
Ammonia water	.sufficie	nt

Macerate the logwood with the water for 24 hours; filter, and to the filtrate add ammonia water, drop by drop, until the liquid assumes a dark blue-red color. With this liquid impregnate paper as in the preceding instance.

When freshly prepared, this paper will indicate 1 part of ammonia in 80,000 to 90,000.

IX. Potassium iodide-starch paper:

Wheat starchav.oz.	1
Potassium iodidegr.	
Distilled waterfl.oz.	

Mix the starch thoroughly with 1 fluidounce of water, gradually add the remainder of the water, in a boiling condition; heat the whole on a water bath for 30 minutes, then add the potassium iodide, and disso've.

The test paper is prepared by painting the solution upon one surface of letter paper by means of a broad, soft brush and then drying.

X. Starch paper:

Wheat st	arch	150
Distilled	watertl.oz.	33

Intimately mix the starch with 3 fluidrams of water, and then add the remainder of the water in a hot condition. With this mixture prepare test paper as in the preceding instance. A caution to be observed is that the brush must not be passed over the same spot twice as this would loosen some of the fibers of the paper.

This paper will indicate 1 part of free iodine in 25,000.

# Tin Plating.

See " Plating with Gold, Silver," etc.

# Twaddell's Scale.

The Twaddell is an old degree scale largely used in England, principally among the dyers' to indicate the strength of solutions of mordants, etc. It is an arbitrary standard, something similar to Baume scale. The following rule is used for converting Tw. degrees into specific gravity: Multiply Twaddell's degrees by 5, add 1000 and divide by 1000. For example: To reduce 64 degs. Tw.  $(64 \times 5)+$ 1,000 divided by 1000 - 1.320 sp. gr. Or another, method is to multiply by 5, cut off 3 decimal places, and add 1:  $64 \times 5 - 320$ ; a decimal point will make 0.320; then add 1 - 1.320.

# Varnishes.

These, like lacquers, are resinous solutions intended as protective applications to metals, wood, etc.

### Varnish, Amber.

I.	
Amber, coarse powder	av.oz. 8
Oil of turpentine	
Mix and dissolve.—D.	

# 11.

Amber	.av.oz. 8
Oil of turpentine	.fl.oz. 9
Linseed oil varnish	fl.oz. 6

Melt the amber out of contact with the air, allow to cool somewhat; add the oil, and then the varnish.—D.

## Varnish, Anatomical.

Masticav.oz.	3
Sandaracav.oz.	8
Camphorgr.	110
Venice turpentineav.oz.	¥
Venice turpentineav.oz. Alcoholfl.oz.	28
Mix and dissolve.	

This is used for dry anatomical specimens.—H.

#### Varnish, Black.

Linseed oil varnishf	l.oz. 10
Burnt umberav	
Asphaltum, powderav	r.oz. 4
Oil of turpentinesu	ifficient
Heat the first three ingredients	until the

must not be passed over the same spot twice asphaltum is dissolved, then remove from the

fire and add oil of turpentine until the liquid is of proper consistency.—II.

# Varnish, Bookbinders.

B.	

Shellacav.oz.	4
Benzoinav.oz.	11/2
Sandaracav.oz.	1
Masticav.oz.	
Oil of lavenderfl.dr.	2
Absolute alcoholfl.oz.	24

Mix, macerate for some time, agitating occasionally; decant the clear liquid, and filter.—II.

#### II.

Shellacav.oz.	4
Masticav.oz.	1
Benzoinav.oz.	2
Venice turpentinegr.	150
Venice turpentinegr. Alcoholfl.oz.	20

Macerate a few days, agitating occasionally, and filter.—H.

# Varnish, Celluloid.

Pyroxylin (soluble gun cotton)gr.	200
Ether	41/2
Alcoholtl.oz.	6
Camphorgr.	120

Pour the ether over the pyroxlin, add the alcohol and finally add the camphor.

This varnish may be colored by the addition of anilines. It is particularly adapted for covering paper labels.—D.

#### Varnish for Chocolate Candy.

Sumatra benzoingr.	500
Shellac, palegr.	500
Vanillingr.	7
Alcohol, enough to makefl.oz.	16

Dissolve the first three ingredients in 14 fluidounces of alcohol; filter, and pass enough alcohol through the filter to make the filtrate measure 16 fluidounces.—D.

# Varnish, Copal.

Copal resin					•						•		. a	v.oz.	8
Linseed oil														fl.oz.	6
Oil of turpentine	•	•	•	•	•	•	•	•	•	•	•	•	••	fl.oz.	6

Melt the copal; add the linseed oil, and when nearly cool add the oil of turpentine.

# Varnish, Dammar.

Dammar resin	•			•	 		.av.oz.	- 8
Oil of turpentine	• •	 •	•				fl. oz.	13

Melt the resin carefully over the direct flame; allow to cool, pulverize, and dissolve in the oil. This varnish may be prepared by dissolving the resin without the preliminary fusion, but the product will always be sticky.—I).

#### Varnish, Furniture.

Shellacav.oz.	7
Resingr.	175
Absolute alcohol fl.oz.	
Turpentineav.oz.	1
Talc, powderav.oz.	*

Warm the shellac and resin; add the absolute alcohol, and finally, the turpentine and talc. Shake vigorously for several minutes and stand in a cool place. After 8 days filter through a filter which has been previously wetted with alcohol.—D.

# Varnish, Grecian.

Balsam of fir		 			.av.oz.	6
Oil of turpentine.		 		•	fl.oz.	2
Alcohol		 	 		fl. oz.	4

# Varnish, Label.

Sandaracav.oz. Masticav.oz.	4½ 2
Camphor	35
Venice turpentinegr.	150
Etherfl.dr. Alcoholfl.oz.	-

Macerate for several weeks, agitating frequently until dissolved, and decant or strain from impurities. The varnish dries rapidly to a colorless, smooth and glossy layer.

# II.

I.

Sandaracav.oz.	3
Masticav.oz.	¥
Venice turpentinegr.	150
Alcohol fl.oz.	1 <b>6</b>

Macerate with repeated stirring until solution is effected, and then filter.

Paper labels are first sized with diluted mucilage, then dried, and then coated with this varnish. If the labels have been written with water-soluble inks or color, they are first coated with two coats of collodion, and then varnished.—D.

# III.

Shellac, bleachedav.oz.	
Balsam of copaibaav.oz. Venice turpentine gr.	1/2
Venice turpentine gr.	100
Alcoholfl.oz.	16
Prepare and use like the preceding	-D.

# Varnish, Linseed Oil.

I. Evaporate 100 parts of linseed oil over the naked flame, stirring constantly, until it weighs 90 parts. Allow to cool, and add 5 parts of oil of turpentine.—D.

II. Heat 100 parts of linseed oil with  $2\frac{1}{2}$  of litharge over the naked flame until there is no further effervescence. Then set aside for 14 days. The product weighs about 95 parts.—D.

III. Heat 100 parts of linseed oil with 4 parts of manganese borate over the naked flame, with constant stirring until the yellow color of the oil changes to a pale yellowishgreen. The change in color may be observed by transferring a drop of the liquid, from time to time, to a porcelain plate. The termination of the reaction is also denoted by the discontinuance of effervescence. The varnish should now be removed from the fire and cooled rapidly, if possible, by setting the dish in cold water; then set aside for 14 days. The product weighs about 93 parts.—D.

# Varnish, Map.

Saturated solution of boraxfl.oz. 1	
Shellac, fine powderav oz.	6
Shales together, but comby no heat	

Shake together, but apply no heat.

# Varnish for Metals.

Shellac, palegr.	500
Sandaracgr.	
Venice turpentinegr.	70
Alcohol, enough to makefl.oz.	16

Dissolve the shellac, sandarac and turpentine in 14 fluidounces of alcohol by maceration; filter and add enough alcohol to make 16 fluidounces.

This varnish may be applied to all kinds of polished metal.—D

#### Varnish, Transparent.

Sandaracav.oz.	2
Masticgr.	300
Venice turpentinegr.	90
Alcoholfl.oz.	12

After solution filter, and add sufficient into a wide-mouth bottle. alcohol to bring to the measure of 15 fluidounces. Moisten a cloth with the window glass a quar

# Varnish Stains, Removal of.

See "Stains from Fabrics, Removal of."

# Washing Powder. (Soap Powder.)

Washing powders, usually sold to the consumer as soap powders, may be described in a general way as mixtures of powdered soap, with about its own weight, more or less, of sodium carbonate. Some special brands are also made, which in addition contain other detergent agents, such as ammonium carbonate, sal ammoniac or borax; while still others are found, to which filling. in the form of talc, silex, etc., has been added. The soap itself may have been made by any of the processes known-cold, half-boiled, or boiled, settled, or boiled down-and the stock used may have been any fat, or mixture of fats, according to the grade of washing powder to be made. Here are some typical formulas:

I. Borax Soap Powder:

1

Curd (hard) soap, powderav.oz.	10
Soda ashav.oz.	
Sodium silicateav.oz.	4
Boraxav.oz.	2
Each ingredient is thoroughly dried,	and
all mixed together by sifting:	

II. London Soap Powder:		
Yellow soap	 av. oz.	12
Pearl ash		
Palm oil	 .av.oz.	2

These ingredients are combined as well as possible without any water, and they are spread out to dry, and then ground into coarse powder. They are adapted to hard waters, as their excess of carbonated alkali neutralizes the lime in the water.

III. Pearl Soap Powder:

	powder rude sod.um carbon-	. av. oz.	8
ete)		-	

alc).	••	• • •		••	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠		υ	
Sodium	S	ilic	ate		•	•	•	•	•	•	•	•	•	•	•	•	. av. oz.	4	

Dry as much as possible and mix intimately.

## Window Polishing Paste.

Prepared chall	<b>.</b>	av.oz. 8	)
White bole		av.oz.	5
Jeweler's roug Water	<b>e</b>	av.oz.	7
Water		fl.oz. 5	5
Alcohol		fl.cz. 8	\$

Make into a smooth paste and introduce into a wide-mouth bottle.

Moisten a cloth with alcohol, place upon the window glass a quantity of the paste of about the size of a bean, and rub the latter about on the glass with the cloth until dry and the powder is removed.—D.

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Fuller's earth powder.         Funigating essence.         Paper         Pastilles.         Powder.         Species.         Tincture.         Vinegar.         Fumigations         Structure.         Funigation, balsamic.         Funigicides.         Furniture cream; paste polish.         Varnish.	$\begin{array}{r} 325\\ 302\\ 301\\ 300\\ 301\\ 302\\ 302\\ 393\\ 416\\ 407\\ 408\\ 467\\ \end{array}$
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Fuller's earth powder.         Fumigating essence.         Paper         Pastilles.         Powder.         Species.         Tincture.         Vinegar.         Fumigations         Species.         Funigation, balsamic.         Fungicides.         Furniture cream; paste polish.         Varnish.         Furnice remedy         Furs, preserving of.         C.ALACTAGOGUE.	325 302 301 300 301 301 302 302 302 302 302 302 302 302 302 302
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Fuller's earth powder	$\begin{array}{r} 325\\ 302\\ 301\\ 300\\ 301\\ 301\\ 302\\ 302\\ 302\\ 302\\ 302\\ 302\\ 416\\ 407\\ 408\\ 467\\ 205\\ 408\\ 185\\ 93\\ 252\\ 105\\ \end{array}$
Fuller's earth powder.         Fumigating essence.         Paper         Pastilles.         Powder.         Species.         Tincture.         Vinegar.         Fumigations         Superior         Fungicides.         Furniture cream; paste polish.         Varnish.         Furnice remedy         Furs, preserving of.         GALACTAGOGUF.         Galanga, extract of, fl.         Galal of horses         Gallic acid, glycerite of.         Ointment.	$\begin{array}{r} 325\\ 302\\ 301\\ 300\\ 301\\ 301\\ 302\\ 302\\ 302\\ 302\\ 302\\ 302\\ 302\\ 302$
Fuller's earth powder.         Fumigating essence.         Paper         Pastilles.         Powder.         Species.         Tincture.         Vinegar.         Fumigations         Superior         Fungiation, balsamic.         Fungicides.         Furniture cream; paste polish.         Varnish.         Furnicle remedy.         Furs, preserving of.         GALACTAGOGUE.         Galanga, extract of, fl.         Gallic acid, glycerite of.         Ointment.         Gallic acid, glycerite of.         Ointment.         Galls, elixir of. aromatic.	$\begin{array}{c} 325\\ 302\\ 301\\ 300\\ 301\\ 301\\ 302\\ 302\\ 302\\ 302\\ 303\\ 416\\ 407\\ 408\\ 467\\ 205\\ 408\\ 185\\ 93\\ 252\\ 105\\ 117\\ 53\\ \end{array}$
Fuller's earth powder.         Fumigating essence.         Paper         Pastilles.         Powder.         Species.         Tincture.         Vinegar.         Fumigations.         Species.         Tincture.         Vinegar.         Fumigations.         Sumgation, balsamic.         Fungicides.         Furniture cream; paste polish.         Varnish.         Furnicle remedy.         Furs, preserving of.         GALACTAGOGUE.         Galanga, extract of, fl.         Gallic acid, glycerite of.         Ointment.         Galls, elixir of, aromatic.         Gapes in pheasants.	$\begin{array}{c} 325\\ 302\\ 301\\ 300\\ 301\\ 302\\ 302\\ 302\\ 302\\ 302\\ 302\\ 302\\ 302$
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Fuller's earth powder.         Fumigating essence.         Paper         Pastilles.         Powder.         Species.         Tincture.         Vinegar.         Fumigations.         Species.         Tincture.         Vinegar.         Fumigations.         Sumgation, balsamic.         Fungicides.         Furniture cream; paste polish.         Varnish.         Furnicle remedy.         Furs, preserving of.         GALACTAGOGUE.         Galanga, extract of, fl.         Gallic acid, glycerite of.         Ointment.         Galls, elixir of, aromatic.         Gapes in pheasants.	$\begin{array}{c} 325\\ 302\\ 301\\ 300\\ 301\\ 302\\ 302\\ 302\\ 302\\ 302\\ 302\\ 302\\ 302$
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Fuller's earth powder.         Fumigating essence.         Paper         Pastilles.         Powder.         Species.         Tincture.         Vinegar.         Fumigations         Superior         Fungations         Superior         Fungations         Superior         Fungation, balsamic.         Fungicides         Furniture cream; paste polish.         Varnish.         Furnicte remedy.         Furs, preserving of.         GALACTAGOGUE.         Galanga, extract of, fl.         Giall of horses         Gallic acid, glycerite of.         Ointment.         Galls, elixir of, aromatic.         Gapes in pheasants.         Gargle species.         Gargling oil.         Garlic, syrup of, Thompsonian         Gars, elixir de.         Gas burners, cement for         Gelatin bougies.       14,	$\begin{array}{c} 325\\ 302\\ 300\\ 301\\ 300\\ 302\\ 302\\ 302\\ 302\\ 302\\ 302\\ 302$

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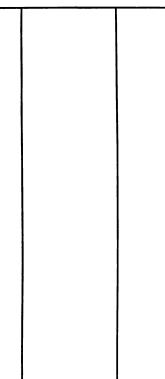
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